```
   1 gatcatacct ctcctctgct cagaggttct catcggttcc catctgtcta gaaaataaaa
  61 tgtgaacact tgaccttgat caaaatcctt tgtaatctgc tgattaccta cttctctacc
 121 cttctcattt ctctctttta cctaccctca tgcttgaatt tcctgcctac ttaacattga
 181 tcgctcttca cctttacacc cctcacttaa aaccccagcc ctcactcccc acacaaacgt
 241 ggctcccagt gccctggtca aaatctcact ttccttcaag atccagccaa gtccactgct
 301 gtcatgaagc cttctctgat tttcctttc cacacctctt gcaggaaaca attcttccct
 361 tctctggact cctctagtat tttacaattt cctccctgaa agcatttaat cccctcttg
 421 ttctgagatt attcacgcac tcacctgagc tcccaccaca gtgattcagc atgtcatgag
 481 cagagccagt gagtgcttaa cgtgtgctca ccagaagcac ttagcgcagt gccttgcact
 541 gctcagcagc tccatatttg tggaataaag cgtttgttta cttctccaaa gtgtttatta
 601 ttccgaaaag gttaaatggc tgtttttttt taaaaggtgt taacaaattt aagtatttat
 661 ctctgaccaa ttttgaggaa gaataaacct gttcatgtgt tctaactcat cagagaatag
 721 aaatatgttt ttgtgaaact tgtttttaac ccaaggattt attgacaaaa gaaaaaaaaa
 781 actgaaaaag tattctgctt tttaaaatgc cctgaattaa acatttacgt gcttgctata
 841 tctttcttaa catgtatgag tttggtctag agaaaatttc caaagagaaa gtgatgagga
 901 catcattgaa tatataggta aaaattcaaa ggcatttaat ccctgtaaca cacgaaatga
 961 accagcctga atttacttat aaatatacaa gagaaatgac tcacgtcttc agtgatacag
1021 agcaattcag ttgtaaaaag ctaggaaaag tggaaaagtg tgtaagagtt tcagcaagta
1081 cgttcattac ccactgacta gaaaagggac aaggtaaagc tattattata gtatatactc
1141 atgtatatct tcttcaagaa gatgagtctt ataaaaatta atatgtctgt agaattctct
1201 aaattgttaa gggaaggtag tacttatatc ttaaatttgc ataggagaat tatagtttct
1261 gctaattatc atggattgtt tacatttgct gactgattga cctacctatg tatttattca
1321 ttgttgtatt ttcatctaat tccaaaagca tttgaacctg tcttagatt attactcaaa
1381 gttgatatcc taattcccta tttagattag aacttctgat aaacagcgta gttttacctt
1441 tttcctttca gtttactttt ttttaaaact actgtatttg tgggtagtgt gctcaaagtt
1501 tttttttttta cagtgtttgt caaataatag tgaagtagaa cacagaggtg gagttttgcc
1561 aagtgctgtg tcatgctgtg ctagagacct aacattctgt gttgctacac cagcagaatt
1621 tattcctctc cttttgcttt attataggct tgcagtgtaa gtttaaatat agtaaacagt
1681 tgttgtttta aacaaatgat cttgttttat tgtgcttttc tgtgctttta aaacatattt
1741 ggagattttt ttacatacaa aaaagtacaa agtattttgt tgtgtgtact catgtattaa
1801 cagcagagtt gattataaat attttctcat atttgcttca cgttcttttc acaaattcaa
1861 tatatttttt aaaaaccagc tcagcaaggt tattgctgct gaggggcagc ttccgttact
1921 ccccactcct tgccactctc ctgtccctct cagaggagct ctcactgcac tgggggtttt
1981 cctttcagtt cattcaacgt acatgtatat atctatgaat agtatgtgat tttatgtttg
2041 tattttaaat ttgcataaac agtaccactt tgtatgtaga tacctagata tttgctttat
2101 aattttacat tgttctccag aagagacttt ccatttcctc acctctttaa ttatacctaa
2161 tattgttaga atttaaattt ttggccaatt tgatggattt gtttgttgtc tttctggttt
2221 attgattact aagattgggt ctcattattc tttaaaacaa acttttactc cattaaactg
2281 atgatagctg gagatgggat tttgcttagc aattctgcac atgtccctgt ttgaggggac
2341 aagtcagaag cctgcagcat gatgctgtgt ctggagggtg cactgtttct agccttccac
2401 tagcccagag tggtaccagc tgttcctttt cagtcttctg tgctggctcc tcctcacctc
2461 cccagcctct cacataggcc ccagggctgt ggcctttgat ctcttctctt cctgtctgtg
2521 ctcactttgt aggtagtctc atccggtctc ctgacttcag ataccatttc tgtgctgatg
2581 atgccccagt tcattccaca tgtgggtatc attctgactt accccaccag tctctgctgg
2641 ggtgtctaat tagcatctca ggtctgatgt gtcccagatc cctggttcac cccttacctc
2701 taagcacact tcccccatag tcttccgcca tccttccatc tgcttggcca aaaatcttga
2761 agtcatcctt gatgcccatc tttctcacgt gttgcctcta atctaccagt aaaacctttt
2821 ggctcttcac ttcaaaatgt cttcagaatc catccacttt taatcacctc caacacccca
2881 ccccagccac atcctctcta ctaaattgct tctggaatag ctcctgattg gtctctgtgg
2941 ttctaccctg ttcctttaca gactatcttc cacatagcag ccaaagtggc cttgtaacaa
3001 ttgtgtcatt cctttgctta aaagccccag gggtttcctg actcatttgg agcactggtc
3061 aggcacccac caggagctct gtcttcctcc ttaccatctc cctgaggctc agctccccaa
3121 ccttcctccc tcgcgtgctc agctgcagcc acacgggtct cctgcctctt tcttgaacac
3181 ccgcagcagg cccctgtctc agggactttg cactcctttc ctctgttaag aatgccctct
```

FIGURE 1

```
3241 aggaggattc cattccaaga tggccaaata ggaacagctc cagtctgcag ttcccagcgt
3301 gattgacgca gaagacggat gatttctgca tttccaactg aggtacctgg ttcatctcat
3361 tgggactggt tggacagtgg gtgcagccca cagagggtga gccaaagcag ggcaaggcat
3421 cgcctcaccc aggaagcaca aggggtcagg ggatttccct ttcctagcca agggacgctg
3481 tgacagacag tacctggaaa aacgggacac tcctgcccaa atactgcact tttccaacag
3541 tcttagcaaa tggcacacca gaagattata tcccgcatct ggcttggtgg atcccatgcc
3601 cacagagcct tgctcactgc tagcacagca gtctgagatc tacctgtgag gcagcagcct
3661 ggcagaggga gtggcatctg ccattgctga ggcttgagta ggtaaacaaa gaggctgggg
3721 aagctcaaac tggcagagc ccaccgcagc tcagcaaggc agactgcctc tgtagtctcc
3781 acctctgggg gcagggcata gctgagcaaa agacagcaga aacttctgca ggcttaaaca
3841 ttcctgtctg acagctctga agagagcagt ggttctccca gcatggtgtt tgagctcaga
3901 gaaaggacag actgcctcct caagtgggtc cctgaccccc gtgtagccta actaggagac
3961 acctccccgt aggggccgac tgacacctca tacaggcggg tacccctctg gggcgaagct
4021 tccagaggaa ggatcaggca ccaatatttg ccgttctgca atatttgctg ttcttcagcc
4081 tctgctggtg atacccaggc atacagggcc tggagtggac ctccagcaaa ctccaacaga
4141 tgtgcagctg agggacctga ctgttaggag gaaaactaac aaacaaaagg attagcatca
4201 acatcaacaa aaagaacatc cacaccaaaa ccccatttga tgttggtggg tcaccaacat
4261 caaagaccaa aggtagataa aatcacaatg atggggagaa accagaccag aacatctgaa
4321 aattctgaaa accagagacc ctcttctctt ccaaaagatc gcagctcctc gccagcaatg
4381 gaacaaagct ggatggagaa tgactttgat gagctgacag aagtaggctt cagaaggtca
4441 gtaataacaa acttttccaa gctaaaggag gatgtttgaa cccattgcaa ggaagctaaa
4501 aaccttgaaa aaagcttaga caaatggcta actagaataa acagtgtaga gaagacctta
4561 aatgacctga tggagcaaaa ctgtggcacg agaactacgt gacgcataca caagcttcaa
4621 tagctgattt gatcaagtgg aagaaagggt atcagtgatt gaagatcaaa ttaatgaaat
4681 aaagcgagaa gagaaggtta gagaaaaaag agtagaaaga aacgaacaaa gcctccaaga
4741 aatatgggac tatgtgaaaa aaccaaatct acatttgatt ggtgtacctg aaagtgacgg
4801 ggagaatgga accaagttgg aaaacactct tagggatatt atccaggaga acttcccaa
4861 cctagcaagg caggccaata ttcaaattta ggaaatacag agaacaccac aaagatactc
4921 cttgagaaga gcaaccgcaa gacacataat tgtcagattc accaaggttg aaatgaaggg
4981 aaaaatgtta aggacagcca gagagaaagg tcgggtcacc cacaaaggga aacccatcag
5041 acttaacagc agatctctcg gcagaaactc tacaagccag aagagagtgg gggctggtat
5101 tcagcattct taaagaaaag aattttcaac ccagaatttc atatctagcc aaactaagcc
5161 tcataagtga aggagaaaaa aaaatccttt atagacaagc aaatgctgag agattttgtc
5221 accaccagac ctgccttacg agagttcctg aaggaagcac taaacatgga aaggaacaac
5281 cagtaccagc tactgcaaaa acatgccaaa ttgtaaagac catcaatgct ggaagaaac
5341 tgcatcaact aacgggcaaa ataaccagct aacatagtga cgggatcaaa ttcacacata
5401 acaatattaa cctttaatgt aaatgggcta aatgcctcaa ttaaaagaca caggcaaatt
5461 ggataaagag acaagaccca tcagtgtgct gtattcagga gacccatctc acatgcagtg
5521 acacacatag actcaaaata aagggatgga agaagatcta ccaagcaaat ggaaagcaaa
5581 aaaaaaaaaa aaaaaaaaaa aaaaagcag gggttgcaat cctagtctct gataaaacag
5641 actaaaccag taaagatcag aagagacaaa gaaggccatt acataatggc aaagggatca
5701 attcaacaag aagagctaac tatcctaaat atatatgcac ccaatacagg agcacccaga
5761 ttcataaagc aagtccttag agacctacaa agagacttag actcccatac aataataatg
5821 ggagacttta acaccccact gtcagtatta gacagatcaa caagacagaa ggttaacaag
5881 gatatctagg acttgaactc cgctctgcac caagcagacc taagagacat ctacagaact
5941 ctccaccaca aatcaagaga atatacattc ttctcagcac cacatcgccc ttattctaaa
6001 attgaccaca tagttggaag taaagcactc ctcagcaaat gtaaaagaac agaaatcaca
6061 acaaactgtc tctcagacca cagtgcaatc caattagaac tcaggattaa gaaactcact
6121 caaaaccgca caactacatg gaaactgaac aacatgctcc tgaatggctg atgggtaagt
6181 aatgaaatga aggcagaaat aaagatgttc tttgaaacca gtgagaacca agacacaaca
6241 tatcagaatc tctgggacat atttaaagca gtgtgtagag ggacatttat agcactaaat
6301 gcccacaaga gaaagcagga agatgtaaa atcaacacct agcatcaaaa ttaaaggaac
6361 tagagaagca agagcaaaca aattcaaaag ccagcagaag caagaaata actaagatca
6421 gagcagaact gaaggagata gagacacaaa aaaaccttg aaaaaatcaa tgaatccagg
6481 agctggtttt ttgaaaagat caacaaaatt gatagactgc tagcaagact aataaagaag
6541 aaaagagaga agaatcaaac agacacaata aaaaatgata aaggggctat caccactgat
6601 cccacagaat acaaactatc atcagagaat actataaaca cctctatgca aataaactag
```

FIGURE 1 (continued)

```
 6661 aaaatctaga agaaatggat aaattcctgg acacatacac cctcccaaga ctaaaccagg
 6721 aagaagttca atctctgaat agactaataa caggctctga aattgaggca ataattaata
 6781 ggctaccaac caaaaaaagt ccaggaccag atggatttac agctgaattc taccagaggt
 6841 acaaagagga gctggtacca ttccttctga aactattcca atcaatagaa aaagagggaa
 6901 tcctccctaa ctcatttcat gaggccagca tcatcctgat accaaagcct ggcagagaca
 6961 taacaaaaaa aagagaattt tagaccaata tccctgatga acatcgatgt gaaaatcctc
 7021 aataaaatac tggcaaacca aacccagcag cacatctaaa agtttatcca ccatgatcaa
 7081 gtcggcttca tccctgggat gcaaggctgg ttcaacatat gcaaatcaat aaacataatc
 7141 catcacataa acagaaccaa tgacaaaaac cacatgatta tctcaataga tgcagaaaag
 7201 gctttcaaca aaattcaata gcccttcatg ctaaaaaatc tcaataagct aggtattgat
 7261 ggaacgtatc tcaaaataat aagagctatt tatgacaaac ccacaaccaa tatcatactg
 7321 aatgagcaaa agctggaagc agtccctttg aaaaatggca caagacaagg atgccctctc
 7381 tcaccactcc tattcaaaat agtgttggaa gttctggcca aggcaatcag gcaagagaaa
 7441 gaaataaagg gtgttcaatt aggaaaagaa gaagtcaaat tgtccctgtt tgcagatgac
 7501 atgattgtat atttagaaaa ccccattgtc tcagcccaaa atctccttaa gctgataaac
 7561 aacttcagca aagtctcagg atgcaaaatc aatgtgcaaa aatcacaagc attcctatac
 7621 accaataaca gacaaacgga gagccaaatc atgagtgaac tcccattccc aattgctaaa
 7681 aagagaataa aatatctaag aatccaactt acaagggatg tgaaggacct cttcaaggag
 7741 aactacaaac cactgctcaa caaaataaaa gaggacacaa acaaatggaa gaacattcca
 7801 tgctcatgga taggaagaat caacaacgtg aaaatggcca tactgcccaa ggtaatttat
 7861 agaccatctc catcaagcta ccaatgactt tcttcacgga actggaaaaa aactacttta
 7921 aagttcatat ggaaccaaaa aacagcccac gttgccaaga caatcctaag caaaaggaac
 7981 aaagctggag gcatcatgct atctgacttc aaactatacg acaaggctac agtaaccaaa
 8041 cagcatggta ctggtaccaa aacagatata tagaccaatg gaacagaaca gaggcctcag
 8101 aaataacacc acacatctac aaccagctga tctttgacaa atctaacaaa aacaagaaaa
 8161 ggggaaagga ttccctattt aataaacagt gctgggaaaa ctggctagcc atatgtagaa
 8221 agctgaaact ggatcccttc cttcacactt atacaaaaat tgattcaaga tgggttaaag
 8281 acttaaatgt tagacctaaa accataaaaa ccctagaaga aaacctaggc aataccattc
 8341 agaacataga catgggcaag gacttcatgt ctaaaacacc aaaagcaatg gcaacagaag
 8401 acaaaataga caaatgggat ctaattaaac taaagagctt ctgcacgaaa ctaccatcag
 8461 agtgaacagg caacctatgg aatgggagaa aattttttgca atctactcat ctgacaaagg
 8521 gctaatatcc agaatctaca aataactcaa acaagtttac aagaaaaaaa acaaccccat
 8581 ccaaaagtgg gcaaaggata tgaacagaca cttctcaaaa gaagacattt atgcagccaa
 8641 cagacacatg aaaaaatgct catcatcact ggtcatcaga gaaatgcaaa tcaaaaccac
 8701 agtgagatac catctcacac cagttagaat ggcgatcatt aaaaagttgg aagcaacaga
 8761 tgatggagag gatgtgggga aatcggaacg cttttacact attggtggga gtgtaaacta
 8821 gttcaaccat tgtggaagac agtgtggcaa ttcctcaagg atctagaact agaaatacca
 8881 tttgatccag ccatcccatt actgggtata tacccaaagg attataaatc atgctactat
 8941 aaagacacat gcacacgtat gtttattgcg gcactattaa caatagcaaa gacttggaac
 9001 caacccagat gtccatcaat tatagactgg attaagaaaa tgtggcacat atttaccatg
 9061 gaatactctg cagccataaa aaaggatgag ttcatgtcct ttgcagactt ggatgcagct
 9121 ggaaatcatc attctgagta aactgtcaca aggacagaaa accaaacacc gcatgttctc
 9181 actcacagat gggaattgaa caatgagaac acttgaacac agggagggga acatcacacc
 9241 ctgggcctg tcatggggtg ggggcctggg ggagggatag cattaggaga tatacctaat
 9301 gtaaatgact agtttatggg tgcagcaaac caacatggca catgtatacc ctatgtaaca
 9361 aacctgcacg ttgtgcatat gtacctaga acttaaagta taaaaaaaaa aaaaaaaag
 9421 aacgccctct accagatact gtgagactta cgccaccctg ccttcagctc tctagcagat
 9481 gtcgtttgat cagtggggcc ttcctgaata taaatatatg taatataaat atatataaaa
 9541 acaaaaggca cctcaccctc ttactgctag catcacttac gccctttatt ctgttttctt
 9601 tttcctcata gcacttaacc accaccagac acttgtgtgc gtgtttatta tctatttctt
 9661 ccaactagaa aataaattat ataagggcaa agatgatgtt ttgcttgctg ctgtatcttc
 9721 agctccttag gattgtgcct ggcaaatagt aggtaataaa cagttgttta ttgaattact
 9781 agaaaaaaat ctctaaaatc tgtagtcctg cagcatgtga agaaggaata ttagactctg
 9841 cctgcctttc tgaaagtgac atatacttaa gtgatgctaa taggatatgt aagaacatgc
 9901 ttcatatgtt tgagccttga tgatctctga caggagaaat ggggtaaacc ttttttttaaa
 9961 aaggacagta taatctgttc ttggcagcag ctttctataa tctaggaaat aattcaatat
10021 tattaatttt cgaattagat atagtcggcc gggtgcagtg gctcacacct gtaatcccag
```

FIGURE 1 (continued)

```
10081 cactttggga ggccaaagca ggcggatcat ctgaggtcgg gagttcaaga ccagcctgac
10141 taacatggag aaatcctgtc tcaactaaaa atataaaaat tagccaggca tgatggcgca
10201 tgcctgtaat cccagctgtt tgggaggctg aggcaagaga attgcttgaa cctaggaggc
10261 ggagattgcg gtgagccgag atggtgccat tgcactccag cccgggcaac aagagctaaa
10321 ctccatctca aaaaaataat aataatagta attagatata atcgtttttc attaaattcc
10381 ttcactaaaa tcaaatggta actgtgctac ttgatacctt tacttataaa tagtgtttat
10441 gttatatggc caaggtcagt ataggtattg ttaatgtgat aatggcattt gtttattaat
10501 ttgttatttta ttggttattg gagcagatta ctagaaggta attcaagttt tttgactatt
10561 ctgtgttctc atcctcagta atgatcattc caggttgata aagatctgtt ctgttttta
10621 atagctccag aggagaaaag tttattctct ttttgaatga ttttttttt ttatgtatca
10681 cttcggcacc tattcaatgt gtgcacaatt actatcgccc aggagctcct ggctgattac
10741 tatgatgtgg catgagccca aatttggcaa ggttcacttc ccaaggctgg aatcagggaa
10801 agaccggtga tggccaaagt ggtcccagaa ggaagggaag gaatttattt atccctacac
10861 tgctgcattt ggaaggctgt tggtgaggag ggaaaggaag ggcaaacatt ctagaccaag
10921 gagttgcttg accgaagaca cacaggttgg ggaagaggaa tagggtataa gagtgtgaat
10981 gggacagaaa aacaagagag ttccacaggg cccaaggctg ggaagcaggc tgggggacag
11041 gtaatagatg ctgtgcaggg gagtttcagc atgagaactg ccatttcagg tttaaactct
11101 attcactggg cttggataca atgaacaccc ctgtcatgtc agtttatacc catttcttca
11161 tgttctgaca cttgaaaact attatttttt agataggatt cttgagtatt ttaattttc
11221 taaatagtga cacatacagt gtttctttga ttacaaaagt ctgaaccgaa gttgtttaaa
11281 gctattgccc ctttaggacc acatatatct gacttttatc ctgggttatg ttctcaaatg
11341 ttctggagac aaaagattat agggctttta atctgtgacc cttgaatttt cattgttgag
11401 gtttgttgtt tgtttgtttg tttttgctg ttgctgctgt tttattttgt agtgggaatt
11461 tagacagtaa tgacagaaag aagcatgttt cattaagtgg atgatcccat tcagcaacaa
11521 taatactaat actcccacag agccaaagcc ttttttctgg gtggatgagt gttttataaa
11581 agaagtacct caggacttca gcctctctca ttctccacca gatggagttt aacagtttgg
11641 atggaaagtc tgaaatgatt ttcccttgtg atatcccgtt ttttatgtct atgtataaat
11701 gtataatgac taatttggaa atagcgctat caatttatta aactaggaag cattatttcc
11761 cctggaatta gtttctgctc tggcccagga tcactgtggt gtagaacttt caccacagaa
11821 tagcctctgg taaaagatga ggcctgtact tgtcctactt taacgcttct gtatatgttt
11881 taaaaccttg ccccaatcaa ctctataaga atgttataaa gagagcagtg tgttatgaag
11941 tgtttcattt tactaacaat tttatttcc aaagaaaaat gcaaatgatt actatattag
12001 acatacagta ggagtagaag aagtggctga cttaaaacat gatgaaggag aataaaatgt
12061 ttctggtgct acagtttcaa gtttgaagt ggacagccca gcagaacaaa gctagggaga
12121 cctgggggct ggtcactgtc gagtgagctc atgtgcctgg ttcccccctg catcctcttc
12181 acccccgat gcgtctccac ctccctcatc atagggata cctgccctc ttggggagca
12241 ggctcttggc agcagctctt ttgagaagtg agccactatg taaagcctct gccattcttg
12301 agagtcctgc ctgacagtgt attctccatt ttcttagccc agtcagtgag gataagtgaa
12361 aacattgtat cgtgtaaagt gggatattt aacacacaaa cttgctgtct tttccttta
12421 atggtgaaca acctttgtg gtatcatggg gtcttgatat catctctcat cttcttaatc
12481 taacataatt cgaatattag tcatgttaca caaacagact gctagaaacc acaccgggat
12541 ttcatttgct gtgtgtcaac agtagaaatt caggacaatc ctctggtttt gccagcagta
12601 agtttccaca acagttatca aagtcagcct ctttattcc aaacagtgat tttggtggct
12661 tttcagacac cttttcattat gtcttcacac ctgcagttat cgaaggatgt ctggtctagc
12721 tatatgaaaa ctgaaaatcc aaaataaccc aggaaactct tttatttcct gggttctccc
12781 aaacacagtc gaagtatgtc gtttcatcat gctaacagat tatagatgac tattagataa
12841 tatagtgctg aaagaaaaat gtcccacatc aggagccacg tgtctttca ggaaccagta
12901 ctatgaaaca tcaagtcttg atcagtatga aaattgtctt ctctgttttg gtaggtacac
12961 ttcctgtttc ctaacaacag ggtggtagtg acatcagtag tggggtcctg ccgcatgtga
13021 agagggaata ttagactcag catgcttttc tgaaagtgat gtatacttga tactaatagg
13081 atatttaaga acatgcctta tatgtttgag tcttgatgat ctctgacatg gaaaatgggg
13141 taaacctttt tttaaaaagg acaaaatttg ggagacctga ttgtaaatct aaaaagtcac
13201 aaccctgcc agagtttgca gaacagtagc cagaaaccta aggattgtgt ttttaggttt
13261 ataggacaca tttggggct tagtcatta actgatcttt tctgtagcat aaacataatc
13321 atcaccagga aacgtctctg agctttcatt cattaaacaa aatgtactaa acacttaaga
13381 ggcagtcagt gttactacaa agcaccccag tatagtactt attttttaaa catcattacc
13441 acttggtaat atctccgtca gctcatagcg ttctggaaaa agcccaggtc ttatgctgtg
```

FIGURE 1 (continued)

```
13501 tttgtgctga gttgctccct tacatgtgca ttgttttgtt tttcactaaa ggttttctcc
13561 atatttcttt ctaattaatg tcagtgtttt ccaagcatta tcttcagtct tttccttttta
13621 aggatcctag acctgttctc tactctgcca accacaccat acccaggtta tcattcacca
13681 tcatattgtg cctggtccct ggttgataaa gagtgttcat taaagggtga tgtgaaaatg
13741 atgtgatgaa aggccacaga cccttctga attctttacc acccttagca acagcaggct
13801 gcgcggtacc tgtcttatct tttagcagat ggaattcatg ttctaattct caatggaata
13861 aattagggga tgttgggaaa cgtttgcgtt taatgaagca ggaggaatta tacatttta
13921 taagccagcc attaaaatgt ggacattcgg catttaaaag aagtttctat ttagtttaaa
13981 actagcaact tgagctgcaa tgataagaaa tgctcatggg aagcctaatc cctctgctcc
14041 actgcacatt cccttgtttt cttgccataa aacatgatat agcctcggga attttgttct
14101 cctgttcttg gggtattagt gactacattt tagttttcac cttttgtgtc aaaattcaag
14161 ccgccagcaa tttgcttttc atcctttgat ccgaagaatg ttttcgtcaa caaatgctgg
14221 acttcagtgc acggaatgtt aatgtgtacc ctcagccgcc agctaggaga accgtttaat
14281 atgacgaagt gcagtgagaa gcattattct tgttggagtt taagtactta cagtaaagat
14341 gatgtttgat cacaggtttt aaaacctata tcacatttac tcttaaaaat aatttaggtg
14401 catttttaaa aattactagc aaagctttt ttccaaatga aacctgtaga atatattatc
14461 atcgggattt ttatagaaca cattattact ctttttaaga aacacttcca tgtgtagaat
14521 atgaaaccat aataggcttt aggatttata cttaaagcag tgctaatatt attttgaatg
14581 acacgcacgt gacacagtat tttggtttac ttcctaaagt taaacattaa actctgcccc
14641 attatgtttt taatgatgat tttatcttta aaatatatat ataattgt attcacattc
14701 tttaaaaaaa ttttttccct aggttgccat tgtttatctg gctttcagag caatatttct
14761 aaacatatgt gaaaaacaaa aacaggcaaa cttcaacaac aaaagaaggt tgctactgag
14821 tgtacgtggg ccaggttgct accctcggga gcccttctc tcagggagcc cctcctgctg
14881 cttttgcgac tccgactctt ccagcaggtg tcactgtctg gcagcagtgg gcgagcaggt
14941 tgcggttcac ctgactcatc ttcaaataat aacttttaaa atttatcttt agggaagttg
15001 tttgacgtaa atgtatcaaa actttgacaa aaatgttgct acatcatatg cctgattttt
15061 ccctcatgaa ttgaaattca cagaaaataa aggaattaat cttgtgctga tataaaattt
15121 tattgagtat tagaaacatt tgtttataat gagaggggaa tgtggctggg aggacataat
15181 taaatgaaac ttttaggacc atttatttat gaatttgcta agcaaatata gattccttag
15241 gtctgttcta gagtctctga tggctgcaaa ggggtaagcc acagtgctta ccctcctgaa
15301 gtattagtgt gtattataca caccaagaaa ggaacaattg taatagaaaa ggagaaagtc
15361 agtgtatctt attggcataa tgacagggct cctaagttca tagaaacctg tttttgaatc
15421 ctggctttga tgcattctaa tcatatacag tacaagcgtc ttaacttcct tgtggacgat
15481 gggtgtggta tcaactctgt catgggtggt aattaggttt aaacctggag ggtgatgtgg
15541 catagatgtt ggcaaacttt ttaatgtcaa gggctggata gtaaatattt taggctttgc
15601 aagccaccta ttctctgtca tgaatactaa actgtgactg tagcacaaaa gcagccacag
15661 acagtatata aagaaatgag cctggctgtg ttccaataaa actttatcca caagaaccag
15721 tggagagcca catgcagctg gtgaccatag tttgccaatc cctgatataa ccattactca
15781 cctgtaatcc caacactttg ggaggccgag gcgggtggat cacctgaggt caggagttcg
15841 agaccagcct ggacaacatg gtgaaacccc atctctacta aaaattcaaa aattagccag
15901 gcatggtggc gggcacctgt aatcccagct actcgggagg ctgaagcagg agaatcgctt
15961 gaacctggga ggcagaggtt gcagtgagcc aggattatgc cactgcactc cagcctgggt
16021 gacggagcaa gactccaaga cttcatctca aaaaacaaa aaagacaac aacaaaaaaa
16081 ccagttactc aacatagtat catagttgtt acattaagta acatgcagta gcaaagtaag
16141 cagtatcaca gagtcatata tgacaagtgt tttgagtcca taacaagtcc tcgttcttgt
16201 cctcgcagac ttgttgatcc caggcaaggc acttttcctt tctgggtctt ttatcagtac
16261 gacttttgat tcagcagcag tagtcttgtt taggggcag gggcagaggt taaggggac
16321 agggaagtat ataaggact tttattctta tgaatccaaa cagagggcag agttgtctgt
16381 gctttgtttt ggtgccatgg atgtttaaaa ggataccatt gtcttctgtt catttaagct
16441 acccatttta tcttttctct gttacccaga atatcagtcc tgtttaacaa atatgtaatg
16501 attcaaaatt catttgcagg tttttaaact ttgacagtgg tctcctctag cagagatttc
16561 agatactatg tattcagaga cagaaacatc attctgtgct tatctcagtg aaagaaaccc
16621 aggaaaggaa tcccagcccc tcctacatcc tctccaagct acaggcatgt ggctcatcca
16681 ggagggggga agggagcaga gaagccaccc tgggtgtctt ctcacccata ctgctaatcc
16741 tgacctgacc tgaaatttaa tataatcaag gcaaaatcag attaaaatgg agccaaatag
16801 ttttacactt caaatagttt ttacgtacat aaaaaatata tggtgttcgt tttaaattat
16861 tcatattatt tgcatatgct aaaaaagaaa tcagcatgct tcttgaaatg tcttaacaat
```

```
16921 ttaaaatatt tataatataa ctgattctta aactttata taatgcagta tatttgaaat
16981 tttaaaagtt caattattta cattctcctt gggaactaca ttttatatat tctgttactt
17041 gtaatcaaat aattatatga cattcttaat gtctgtacct acaaacattg aattcatgca
17101 tatttataag gtagcttatt gactataatt cattgttgac ctttctgatg attctgtagt
17161 tagattttta aaatatgatt gaatgtggaa tatctaggca tagactaaca tgggtttgaa
17221 tcttagctgt gacatttatg agctgtgggc tcaacacttt aaaagtaatt aactgcattt
17281 ttcatctttt aaatcattct ctgagaaaaa gtcaactcct taattagtcc ttgtttgaat
17341 tatgatcaaa tagtattggt ttgtacagaa tgatgctaac ttaggatcca ggctatagat
17401 ggctgcaacc ggaatagagc catttagtca tcatatgtac aatagagtaa gaaatgcaaa
17461 aaaaaaaaaa aaaaaaaaat agatacaaga taagagcact tttaggttct aagaatttaa
17521 aatgtgtatc taggttagag tgaattgggg tgaaatttcc tgtgcttcca agttaaccag
17581 tagaagtgtt gaaattgatt tcaagaattg atagtgtcct attaaacaat cagaagacag
17641 aaggtactag tgagaagtct tgatttgact atggggctaa tagggaggtg cttgttgtgc
17701 aagcttatgt gagagaatag ctgtatcagt agagtaaaag accctagagc gggctgggtg
17761 cagtggctca cgcctgtaat cccagcactt tgggaggcca aggcaggtag atcacttgag
17821 gtcaggtgtt caagacccgc ctgaccaaca tggtgaaacc ccgtctctac taaaagtgca
17881 aaaattagcc aggcatggtg gcggatgcct gtgatcccag ctactcagga ggctgaggca
17941 agagaatcag ttgaagctgg gaggcggagg ttgcagtgta catgtgtatt ccatatatac
18001 aagtgaagat atgaatccat actgataact tccagtccag caccactgaa tttattctag
18061 tcgtctccat ttccttctct tcttcaccca cagtgagaaa cctggttcgc acctacagta
18121 tgtttacata tttgctcagt tctagtatat aaataaacta gtttcagaaa tccttacctt
18181 tactcctgta agaaacagat ttaaaattac gtgcagcgtg tgccattctt gtctctagcc
18241 ttcacagtct ccagtcaaaa ccctctttgc caaggttatc taggacagga ccttactttc
18301 catgccctta gcgtggctgt gccatccatg cagctgcagt cagagccgtc tgtctcagct
18361 tgcattcctc ttaggttcac ctcacatcct agttgattcc gtttttattt acttacaata
18421 gaatttactt tatggtgtat agtacgtggt ttctgacaaa tgcatagaat tgtatgttca
18481 tcacatggac acaaggaggg gaacatcaca caccagggtc tgttgggggt gggggacaag
18541 gggagggaga gcattaggac aaatacctaa tgcatacggg gcttgaaacc tagaagacgg
18601 gttgatgggt gcagcaaacc tccctggcac atgtatacct ccatggcaca tgtatgtaac
18661 aaacctgcac atttgccaca tgtatccctg aacttaaagt ataataaatt ttttaaaaat
18721 tgtgtgttta tcccaccttt cttttctaat gttggtaatt tgtatcttct ctctctcttt
18781 cttggctagt gttaccagag aattttttcta agaacccagc ttttggtttc cttgcctttc
18841 tctattttc ttttttcaat gtcatcattt ctgttcttat tttgattatt ttttccctct
18901 ccttgctttg agtttagttt gatcttcttt ttctgatttc ttaaactgaa aatttagatt
18961 tatccgagaa ccttcttttc taatgaaagt tttgaatacg ataaatttcc cactgaccac
19021 tgcattagtt acatcccaca aaattcgaat gttgtgtttt aattttcatc cagttgaaaa
19081 tatttgacat gttttgagac ttcctcatta acccaatgaa tatttagaga tgtgttcttt
19141 tttttcttca acttctaagt tcaggggtac atgtgcaggg tgtgcaggtt tgtcgcacag
19201 gtaaacgtgt gccatggtgg cttgctgcac aaaccatctc atcatctcag tattaagccc
19261 agcatttctt cctgatgttc ttcccccaca ccctatcac cccccaacag acaggcccca
19321 gtgagtattg ttcccccaa tgtgtcctcg tgttttcgtc attcagctcc cacttataag
19381 tgaaaacatg cggtatttgg ttttctcttc ctgcattagt ttgctgagga ttatggcttc
19441 caaatccatc tatgtccctg caaaggacat gatctcattc tttttgatga ctgcagagta
19501 ttctatggtg tacatgcacc acgttttcct tatccagtct atcattgatg ggcattcagg
19561 ttgattccat gtctttgcta ttacgaatga acatatgcat gcatgttatc tttatagtaa
19621 aatgatttct gttcctttgg gtatataccc agtaatgtga ttgctgggtc agatggtatt
19681 tctgcagagg tctaggtctt tgaggaatca ccacactgtc ttccacaatg gttgagctaa
19741 tttacactcc cactagcagt gtcaaagcat tcttttttct ctgcaacctc tccagcatct
19801 gttatttttt aactttttaa taatagccgt tctgactggc ctgagatggt atctcattgt
19861 ggttttgatt tgcatttctc taatgatcag tggtgttgag cttttcttca tgttgttggc
19921 tgcatgtatg tgttcttttg agaagtgcct attcatgtcc tttgcctgct ttttaatcgg
19981 gttactttt ttcttataaa tttgtttaag ttccttgtag actctggaca ttagaccttt
20041 gtcagatgga tagattgtga aaattttctc ccattctgta ggttgtgtgt tcactctgat
20101 gatagttcct tttgttgtgc agaagctctg cagtttaatt agaccccatt tgtcaatttt
20161 tccttttggt gttttcgtca taaaatcttt gcccgtgact gtatcctgaa tgatattgcc
20221 tagattttct tctagggttt tcatagtttt tcattttaca tttaagtctt taatccatct
20281 tgagttaatt tttatatata ttgtaaagaa ggggtccagt ttcagttttc tgcatatggc
```

FIGURE 1 (continued)

```
20341 tagccagttt tcccagcatc gtttattaaa tagggactct ttcccccat cacttctttt
20401 tgtttgttga agatcagatg gttgctggtg tgcagtctta tttctgagtt ctctattttg
20461 ttccgttgat ctatgtgtct gttcttgtac cagtatcatg catgtgttct ttaattctgc
20521 aataatttga tggtttttca gatatcctcc aattaattga tttctggttt aattctgttt
20581 tcatgtaaaa acacactctg tatggtttct actgatttta aatagttgag gtttattttg
20641 tagctcagaa tatggtatgt actggtgaat gttccacata cccttatata aaaagtatgt
20701 tctgctgttg agtggaacat ttctataaat gtctattagg tcttgatagt gttttgcggg
20761 tcttttatgt tcttcctgat tttctattta tgtgtcccat taattaccga gagtggatta
20821 ttgaagtctt cagctctgat tatggattta ttttttttcag tttccgctcc tttatttcga
20881 agctctattg cgtacacact taggattgtt atgttcatgg gatgacctat atcattatgt
20941 aatgctcctg tttatccttc ataatattct ttgctctgaa gtccacttcg tctgatatta
21001 gtatagtttc tgcagctgta ttttagttat tgatttatgg tatatctttc cccaaacttt
21061 tattttcagc ctacttatgt ctttatatca atatttaaaa tgcgtttctt atatacagta
21121 tatacatggg acttgcattt tattcagtcc tagtcatttc tgtcttttaa tttatgtgtt
21181 agaccacccc ttttaatgtt attatttgtg taattggatt aaaatgtacc atattggcaa
21241 ccgtttttctg tttgtttcat ttttgggttt cagtttcttt ttgatgcctt ctctagtatt
21301 aactgagtgt tttttatgat tctgttctat ttcctctact gacttattat ttatactttt
21361 aaaaaattgt atttatctac cttcagataa tattacattg ctttacatgg agcctataga
21421 ctttactgca gtttatacac agctccttct ttccgtgctt tatgctattg tggccatacc
21481 ttttttacatt tacatctact gtgaacgcac agtacattgt tttacacatt caggtatctt
21541 ttagagcaat taaaaaataa gaaaaaaaat tgtgtcccca tttattctat tttcactgct
21601 ctttgtttgt ttgtgtagat ccgggcctcc atctgatgtt gtgttccttc tgcctgagga
21661 acttccgttt aacatttatt gtccactagg tcaagcagct ggcaatgaat cccctcagtt
21721 tttgttttttc taagaaagtc tgtatttctc tttcatcttt gaaaattatt ttcaatgggc
21781 atagaattct ggatttaaca gtttttcttga tattgttacc atatttttta tttgcaccat
21841 tttcattgga ttcttttttaa tagttgtcag cactcagctg aaagtcccat ctgttattgt
21901 ctacctttcc ctttagagcc ttcaaaatat gaaccatagt tatttttaaat tctcagtcat
21961 ttctaacata ggtgtcatat ctgactgtgg ttctgattat tgctttgtct ctctgaagta
22021 tgtttttttttc ttgccttctt gtatgccttg taatttgtg ttgaaagctg tacatcttgt
22081 gtaagacagt agagacccat ggaaattgtt tgtatcctag aaatgtgcat gcctctcctt
22141 cctagaggcc tttagtgtgg gagttagagt ttatctagtt aggagtttgc taggtttgag
22201 agatttgttg gcagctatcc tcactgcagg aaaggcttca tgttcctgta gagatacctt
22261 gtgttttggc tgggggttgg atcacaagaa catcacctgt tcagttctag ttttaggtct
22321 tccttttgca ctatgcctca gaaagggtct ctctgcacat tcttgttctc ctgtttctct
22381 ccaagcactg ttttgttacc tgtaatgcta agctccttag cttgacattg tggggcaagg
22441 aggaggatgg ggtgctgtct ctgttccgat tgagttacag tctcgtacct gcaccatttt
22501 cttaggtttc tgggctgtga ccttctcagt tctcctccct ctcccccaag tgttgtggga
22561 gtttctgtgt aatcctgtcc ctccccaagg agacaggttg tatgtgtatg tttttcctgt
22621 tcccttttcca cactgcagtg agtttcagc agtgtcctaa ggacaacagt gcgtgccgcc
22681 cttctcctca caggataggt cttttgtttt cctggtggag acaggggaga tggatccagg
22741 tgtagttcct tgccactcct ctagagttac tgcttctctc ccccatatct ggaacacagc
22801 ggacacttct taccccaccc tcctgtgagc acctgggtga tggtcatggc atagatcctg
22861 tgtgagaatg taaccctcag aggtttcaca caatcttggc agcccactct tgactctaac
22921 cagatacttg agcgggactc ccctgactgg ggttctgttg tgtctgccct cggtgacaca
22981 agcttgtgtc tccttagatt ttgggctgtt gattatctgg gacctcggct tattgatggg
23041 tttggaaaaa gttaataagt ttaaagttag gctgtacgtg tgtgtgtgtg tgtgcgcgcg
23101 cgcgtgcacg tgcacgcttg tgtgtgtgtt taacgtaaac aggtcccatc cttgttagac
23161 tttacagcaa gagcagcctt gaatgaaatc atcctttctc tccagtaact tattctccca
23221 gtcattcagt tctctttagt cttttttacaa attttacttc tttaaagaag atgcgtctcc
23281 aaaaaaaaaa aatacctaat ttgctactga tgtggcaaat tcaagtcaaa ttgaggatga
23341 ctcgaatttt acaatgccaa acaatcctga tggccaactg tcttattctt ccccagggcc
23401 ttctcctcag ccaggcggga ggctcgttgt gggcagggtc cttgtctttt ataatcctcg
23461 cagagttgcc aaacctataa aaaatttttta aataggcaa ggtagagaag tagctgaggt
23521 gcaggagtct gggtatttac ccagaaatca cacattctgt ctccagcata ggcccctaga
23581 gccagtcaat actttggtat tattttatt cattacttat tttacagcat aatagtagaa
23641 ccctaaaagc aaaagcctta tgaaatcaca tgctaacaga acctaaatgc atgtttcatc
23701 ttagagtttt ttaattataa aagtagcaca cgtttgtgat aaataatgta aaatgtcaag
```

FIGURE 1 (continued)

```
23761 ttcttttcat cccctagaaa taatcaccct ccaatctttt ctatgggtct tctaaggctt
23821 ttctctaaac tcattttgt catatacaaa gaaaaagtaa aaaattaata tctaggccat
23881 ttgggaaagg cagcctattg cttgttgctc tgtttacatg tttgtctctt ttcaaaaaaa
23941 tacctgtaag tgcagaatgt atcacagcta aactgtacat tgtctaatgt catctttatt
24001 atatctcagt gacattcctc ccccataact aaattttatt aagctttcag tgggaaagag
24061 cctctaattt gcaagatttt gaaaatgtga agagtttaaa agttccacat gagcttatga
24121 gattttgaa actatttcct ggatcatctt gaagattcct tgttaaactc agtttcacat
24181 gatgttaaga ggctgatact aacgacttt agataatatc cccctttcta tgaggaatgg
24241 gttgaatcat atcacagaag aaattgacag gaaattgtag catctctctg agtaaataag
24301 aaggcttaca cattaggtga atatgacgac acggaggacc attgaaacat gcctgtgtca
24361 accaaaagaa gaagctaaag cacaaagtgt ggttgaaaga gttgacttga gccagaataa
24421 ggacagctgc ccagatgact cacccaaact gcttgcttgg cctttgttac aggcagattt
24481 ttaaaggcaa aaagaaaaaa acaaaaacaa aaaaacagga ggcaggggag gggggccggt
24541 gttaccgagt agactgttag acagttctgt caggaattct catggatata cagaagtaac
24601 agtgattagt gactgcctgt ccacggttaa gctatagaat gtgggatata gtgtccagtg
24661 ccacattact aggttaattc acagctacct gtggcaatgg gaagcagctt cagtaaagtg
24721 tggagtagga tgtgattgct gtctcatctt aatgcctctt tggggcctag taatttgaaa
24781 gggcccacat tcctcagata aaagtccttt tctttcctca tctataatac tattcaaatc
24841 taaagaaaat gtatgttgct cacagatacc aacagccatc agttttttgt gtttgattta
24901 atttgttcag taaaaggaag atacaaaata gggaaaaagc tcaggaaaag agttgcgttg
24961 aactctttat taatttata tgtagttcag ttgtgtttta aagattttca agtgcaatct
25021 tagaggcctt catttccttg tttcttgatt accctccacc tgcctcattc cccttctgag
25081 agtcatttcc cattcctcgt ccctgacccc ggcccctccc gcagagctgc cctcctctga
25141 atcctgatgg ccaactgtct tattcttccc cagggccttc tcagccaggg cggaggctcg
25201 ttgtgggcag ggtccttgtc ttttataatc cttgcagagt tgccaaacgt ataaaaaatt
25261 tttaaaatag cacttgtgca cttggaaagc attccatcac atacctcttg gttgttttta
25321 ttagatgaaa aacagagatt cagttatgag cgatctggat atgatcttga agaatctgat
25381 ggcccagatg aggatgacaa tgaaaatgaa gacgatgatg aggacagcca ggctgaatca
25441 gtcctgtcag ccacaccctc agtcacagct agcccgcagc accttccatc tagaagtagc
25501 cttcaggacc ctgtgagtac tgacgaggat gtcaggatca ccgattgctt ttctggggta
25561 cacacggacc caatggacgt tctgcccagg gcgctgctca ccagaatgac tgtcctgagc
25621 acagcacagt ctgactacaa taggaagaca ctctctccgg ggaaggccag gcagcgtgct
25681 gcgagagatg aaaacgacac aattccgtct gtagacactt ccaggtcccc gtgtcatcag
25741 atgtctgtgg actaccctga gtcagaagaa attctgagaa gttctatggc aggaaaagct
25801 gttgctataa cacaggtaaa tgattggcag ttgttctttt atttcttttt tcgttttaac
25861 ctattaaata tggagaactt aatggcttaa gaaaataatg cacttaagtg attttttag
25921 gccaaatcag tttgtatagc tttatttttt tcttgtattt aagggtagag ggtatttttg
25981 ccctttggag tcttgttgag tatcttaagc agttcagata ttttattgta aatctatgaa
26041 agaaccaaat ggttcttgaa aaatacaccc atttattttt atttgctttt tgaaaaattt
26101 ttgaaattaa aaaaaaaaa aaacgtgaca gtggcgaaca caagtcccgc aactgattta
26161 tctgctggcc ccttctgagc agtttctcca ctggtgctga tgtgatgatg gattttcact
26221 gacttaccca aacattttgc actttgcccc cattggcaag acagctacca gtttctatgg
26281 caaagttaat gtgacccgaa aacacatcaa gaagttcact ttgcttgaat tatcacattg
26341 ctacagcagc ttgggagagc tttctgccca agaactatct caaggcaggc acaggcctct
26401 gaaaagtcac gctccatgtg ctgtgagtga gtccctgctc tacctctggc tgttttgtga
26461 caaatgatta attctgggag gaatacattc ttccctcatt gacagttctc ttacctctag
26521 tatgtattga atattgcaat aggatttatg cctaattgtg gcagattgtg ctgtaagcgt
26581 ctctatccca aaacctctca gacacttacc agtgcctgga aatctggttt tcagtagaca
26641 tttcataaac ttgcaagtga tagacaaaca accagagaac tttttcatag taacatctct
26701 tcacaaataa ttctttagtt cattttttcc cattgagttg acatagccaa cttgaatctc
26761 aatttctcag taactcttaa tctctaaaat aaggtggagc tggtagtgcc agaaacagaa
26821 ataataacaa aaatagcagc ttaagaatat agctgtgtcc acttctcaga gttattctct
26881 gtgtacaata tgacaaaatc caggaaattt gcttcagaca tgcaaaagac tatacaagat
26941 gtattgccat tatttctacc agaaacgaaa ttaaagatgt aataattgtt taattggaag
27001 cttattttta aaaatcgaaa aataatttca ttgcagcaaa catcattttt atcaatgcaa
27061 atatacttac ttttatctca ttgtgaagaa atagatttag cactagcttt atatctcagt
27121 gattacaaaa gacctgtcat aaaaggattg ctctctcttg tcatttagag cccatcatct
```

FIGURE 1 (continued)

```
27181  gtaagacttc  ctcctgctgc  agctgagcac  agcccccaga  cagcagcggg  gatgccttct
27241  gtggcctcac  cacatcctga  ccctcaagaa  cagaagcagc  aaataactct  acagccgact
27301  ccaggcttgc  cttctcccca  cactcatttg  tttagccacc  ttcctttgca  ttcccagcag
27361  caatcgagga  caccttataa  tatggttcca  gttggggggga  tccatgtggt  acctgctggc
27421  ctcacatact  ccacgtttgt  gcccccttcag  gctggaccag  tgcagctcac  gatccctgct
27481  gtcagtgtcg  ttcacagaac  tttgggtact  cataggaata  cggtcacaga  agtgtctggc
27541  actacaaacc  ctgctggagt  ggctgaatta  agcagtgttg  tgccatgtat  tcctatcggc
27601  caaatccgcg  tgccaggcct  tcagaaccta  agtaccccag  gcttgcagtc  actccctcg
27661  ttaagcatgg  aaaccgtcaa  tattgtaggc  ctagccaata  caaatatggc  cccacaagtc
27721  catccaccag  gactggctct  gaatgctgtc  ggactgcagg  ttctgactgc  aaacccttca
27781  tcacaaagca  gccccgcccc  tcaggcacac  attccaggtc  tccagatctt  gaacatagca
27841  ttgcccacct  taatcccctc  agtcagtcaa  gtagccgttg  atgcacaggg  agctccagaa
27901  atgccagctt  cccaaagcaa  agcatgcgag  acacaaccca  agcagacttc  tgtagccagc
27961  gcaaaccagg  tcagcaggac  cgagtctcct  caggggttac  ctacagtcca  gcgggaaaat
28021  gcaaaaaaag  ttctgaatcc  acctgcccct  gcaggtgacc  atgcaaggct  tgatggcctg
28081  agtaaaatgg  acacagagaa  ggctgcctcg  gcaaatcacg  tgaagcccaa  gcctgaactc
28141  acttccatac  agggccaacc  agcgtccacg  tcacaacctc  tgctgaaggc  acattctgaa
28201  gttttttacaa  agccctcagg  ccagcagact  ctctctccag  acagacaggt  tcccaggccc
28261  acagcactac  cgcggaggca  gcccactgtg  cacttcagcg  acgtgagcag  cgatgatgac
28321  gaggacaggc  ttgtgatagc  aacctgatgg  attttatttt  ttatttgctt  ttttttttata
28381  taacacttaa  aggtttcttt  gaaaaccctc  ctttccttaa  agcacatttt  tctgacataa
28441  actcatgact  aatctttgtg  caatcatgaa  cttttgacca  ataattgttg  ttttgtgtca
28501  gctccagcca  tttttgtaca  tgttgtatag  acaattgtgc  cttttaggag  ctttatgttt
28561  agaaactgta  cagattgttg  aatatctata  tacataaaaa  tatattatat  atgtatatga
28621  aaaccaggta  gttatttgtg  tttagtaagg  aaaacctgtc  aaataaatca  aatgattaaa
28681  ttatatgttc  cactgttgaa  tataaatttt  atggctatgg  ggcagagttt  ctgtgtataa
28741  attagtatgt  aaactccata  tttattgtat  tcatattagt  ctttgaaaat  gggtctgtcc
28801  tccttgtgta  agacagtaac  tttacacttc  agacagattt  tctgtgttat  gaaatgtttc
28861  agtaaaatat  tgtttactga  ctttaccatt  gcttcagttg  tgccttcttt  atatcatcca
28921  gtgatcagtg  atctgcattt  ggaaaatagc  cctgggttcc  attctttcca  cattcccctc
28981  aacccttcat  ttttttttata  aacagagact  ttactcgcct  ttctaccatg  tgaaactgta
29041  actgaaatcc  atacaactga  ttgacctatt  tttcttattt  gtgagaagtc  atttcatagt
29101  tattattaga  agactaaata  tataagaata  ctttctgtat  atacataaag  catatagcct
29161  aaaatgggca  acgttcctaa  atgagggtat  ggaaatttct  gggaaacatg  agttaaaccc
29221  cattgtcctt  agaatttggc  tcagatgaga  cccgtataac  ctcatttcca  ggctccaaca
29281  ccagatccat  tcgtgggcta  tgggctcttc  tttcccttga  tgctgttaaa  ctcacagagc
29341  tctgtccagc  actgaactac  agagtgtcca  agattaccga  agagccaaat  tcagacttct
29401  aaattactta  agtgactctc  tttagacatt  actatttcct  gtcctggaag  gttgaaccat
29461  ccttattcag  gaaaatatgg  cggcatgggg  agcccccaat  taccagtgca  gtgatttgca
29521  ttattaatga  ttatagatgc  taggtttatg  agaaaagtat  tttaatgttg  gaatttaaat
29581  acttagcaca  tcattaagtc  aatgtattca  cattttaaa  ggcttgctta  acaaagattg
29641  cagagacatg  aaataagtaa  gacaacagca  tggtttgcga  ggtgagaggt  agggacagc
29701  ctatctacta  aggggtttgg  agacctgctg  ctagccaacc  cagcttcacg  tctgtgactt
29761  tgcaaagacc  tggcatttca  acttgcgtat  ccttatctca  attaggatct  ccaaggtgtg
29821  ctgcagtccc  agcacgcact  ggtggatctg  tgatgcttta  aatgaatgct  tcaatttaca
29881  tttacatatt  tccatagatt  aagtaacaaa  attctctcaa  aaacaataaa  actacatttt
29941  tatattctga  gatagctttg  gaaagaattc  tggaaatatc  tgctctaggg  attgcgttgc
30001  cctatcaata  atagctgttg  aaaatgaggt  ctgttttctg  tccagtttct  caaaattaat
30061  gttttaactg  tgtcatgaac  tttttattgc  ctaaaatttt  aaagcagtat  aataagcata
30121  ttcttaactc  cataattaag  tacagatgac  ttctctaaat  tcaaaaataa  tgcttggagt
30181  ttttagcatt  gaggtttttt  agtttctata  gaattttctt  aatttaaaaa  attcctatac
30241  ttaaagacaa  gtgttacgat  gtgagtggat  gttcccttga  aattttcata  atgctgtaat
30301  gtaccttact  cttattttgt  acttttcaag  attcttattt  tgggcttttc  aaaattcaat
30361  gcatcgtgca  aataccttta  ctattggcaa  ctttcaagct  ttattgtagc  ctttcaagta
30421  ttttgctagt  atttgaaata  tgcagctcta  taaaaaatat  taccaaagtc  taagccatta
30481  tattttgaaa  ttacatgcac  aaaatagaca  agggaacaat  aattttgtgc  tatttctccg
30541  aagtcgtctt  ttcccaagga  gcagtgtcca  cttgatactc  ccaaatataa  acgacttcca
```

FIGURE 1 (continued)

```
30601 aataatgtaa ttcggagaac taatgggact acatttgact tttattctgt tgcactgtcg
30661 tgtgtggaga cccaggcctg tagagaacta gggtgcaatg acatagtaag ataatttatt
30721 gacaaaacag gtgaaagttt taatgtgtaa caatttcaat accttgtgtg aatccactgc
30781 aatgccatca tcagaagtac tggaaaaaac agctgaagaa ccacaggtcg tttttctagt
30841 taaagattat tatatctggc ttatgaaaat gtattataac ataaatcgag ggcgttccaa
30901 taacttattt tcattcccta aactttaagc caaaatgata attatttctt tcgaaatgat
30961 aattaaccga tggtattgaa tgtacaaatt ttgtttctca gttatatttt tcataatata
31021 gacctgattt tcctttcaca gaaacagtat aagtaacacg tttcttacta attaatccct
31081 ggcctgaatt ttaaatgata gcagttaata aggattatgg aaaataatca ttatttttgt
31141 tggaagactg tcaagatagt taatagatct tgattcatgc tcagttcaaa ttataacatc
31201 agggttcttt ttgacttttc tgttttcat cttacatttt gcagtcaact tcaaataata
31261 ccagaaagat gattttcatt aattttgttt caaaaccatc tataaattct aaatacagca
31321 tgtatatcac cttaagaatc ttctctcaaa gtgacttccc atgacttaaa attctaaatt
31381 tcctacttaa tattcaaaat atgtattttg taatatatat ttgtatatat ataatatatg
31441 tatatattac atgcatgtta tatatacgtt atattacatg tatatataca tgttatatta
31501 catgtatata tacatgttat atatacatat acatatatat gttatatata catatataca
31561 tatatgtgta taatatatat acatatatac atatatgcat aatatatata catatataca
31621 tgtgtatatg tgcgtgtata atatatacat gtacatgtgt agatgtgcgt atataatata
31681 tacacatgta catgtataga tgtgcgtata taatatgtac acatgtacat gtatagatgt
31741 gcgtatataa tatatacaca tgtacatgta tagatgtgcg tatataatat atacacatgt
31801 acatgtatat ctgcgtatat tatatataca tgtacatgta tatgtatata tattatatat
31861 acatgtacat gtatatatgt atatattata tacatgtata catgtatata tgtatatatt
31921 atatatacat atacatatgt gtatatatac atatatatgt gtatatatac atatatacac
31981 atacacgtat atatgtatat tatatataca tatatacgtg tatatctata ttatatatac
32041 agatatacgt gtatatctat attatatata gatatacgtg tatatataca tatatacata
32101 tatacatata ttatatacat atatattata tatacagata tacgtgtata tatacatata
32161 tacatatatt atatacatat atacatatat acatatatta tatacatata tattatataa
32221 ttatatatac atgtatatgt atatattata tacatataca tgtatatatg tatatatata
32281 atattttata taatatattt tagtggcaat aactccctgc tctcattacc aagtggggaa
32341 aaaaaggaga aaaggtttaa agcaagaata gcaaaatgtt tttctataca aattatatac
32401 agactgttca caacttacta tggttcaatt taatgatttt ttcaacttta cactgatgtg
32461 aaaatgataa gcattcagta gaaaccatac tctgaatttt gatatctttc tgtgctagca
32521 atataggggtt tgatctctta tgatgctggg cagcagcagg agccaaagct cccagccagc
32581 tacgtgattg taaccacaaa cacactacag tgcactgtat tcaatacatt atacgagata
32641 ttctagactt tatttatttt taaataaata attgttagat gatgttgtcc aactgtaggc
32701 taatgtaagt gagcacgttt aaagtagggt aggctaagct atgttgttca gtaggttaga
32761 tatattaaat gctttttgt cgttgttgtt gttgaaacag tcttgctctg ttgcccaggc
32821 tgtagtgcag tggcgcaatc tcagctcagt gcaacctctg cctcccaggt tcaagtgatt
32881 ctcctgcctc aaccacccga atagctggaa ttgcaggcac acaccaccac actggctaat
32941 ttttgtattt ttagtagaga tggggtttca ctgtgttggc caggccaatc ttgaactcct
33001 gacctcaagt gatccgcctg cctcggcctc ccaaagtgct gagattacag gcatgagcca
33061 ctgtgcccgg taaatgcatt ttttatttag gatattttca atttacaata gattcattgg
33121 gatgtaaccc catggtaaat caaagaacat ctgtaatctg aaagtcatga tgcatttact
33181 taaatatatt ggattcctag tctttgcaca cacaggttta tctggaacct tgcttataaa
33241 ggttctctgg aaggcactgt aggcataaga gacattatct gctcctaggt gttcactgtc
33301 ttctgaatct ggcttgggtt tgaagaaaac gcccagacat ccaaaatcca gtaataattt
33361 aagtaccaac caactccaaa agaaattaga aggtacagtt tctaccccag aggagaatgc
33421 ctgcttaaga cagatcaggt aaactaggac atgacaatag accacatcat agagaccaca
33481 gactttaaaa atgtatgaga gttaagaaag tgattgtctt aagaagttaa agaatgattt
33541 gtgtatacag gggattgctg tattttgaag gaggtatggg atttgggact ttagaatata
33601 catgatgcta aggagtagaa caaaaatagt agtcatgaag tctaagacaa atgtgtgcca
33661 gggaccagtc taagtggaag agaggattca ctcagacatt cgataatatt tatttagcac
33721 caatagtgta gaaagcactt tgggacctgt aatcccagca cttcgggagg ccaaggtggg
33781 cagatcatga ggtcaggaga tagagaccat cctggctaac acagcgaaac cctgtctcta
33841 ctacaaatac aaaaaaagta gccggggtg gtggtgggca cctgtagtcc cagctacttg
33901 ggaggctgag gcaggagaat ggcatgaacc tgggaggcag agcttgcagt gagctgagat
33961 catgccgctg cactccagcc tgggcgacag agtgagactc tatctcaaaa agaaaaaaaa
```

FIGURE 1 (continued)

```
34021 aacttttggga atgcaaattt gatgcaaatt aaatgatgcc tgtccttcag gagcttcagt
34081 tctagtagaa gagtaagtaa gcaagatgca aggtatcttg aatggcaaaa gaaggtacca
34141 ccgagtccag caggagtgcg aatgaaggag aattcctggc tgagttgatg agggagtgct
34201 tcaaagagaa tgagacattt aaatatggcc ttgaagggac ttggttaagc agagacagtg
34261 gatgagacag aacagacaga agcactgtgg aggagaatcc gtatttatcc ctacggcgtg
34321 ccatctataa tcttatgtaa tcattccaag caggaaggat tatctcttcg ttttataggt
34381 ggagaggctg caactcacag atgtgatgaa accttgccat gcagatgctg ggatttgaag
34441 ccaggatggt gtgatgcaac agcataacac ataagcaaat agtagggaac gtgaaagggc
34501 attgagacca agggaataaa ccacattttg ggatttagca aggcatctga cgaagccgca
34561 ataatattat ggttggattt aaggatgatt agtacggtgg gctcgtcaag tggaaagagc
34621 aatcagtggg tcagagcact acagggaaag gagcacgggc tgtggactcc agaaaccatc
34681 actgtcactt ttctaatgtg ttaataactt acgggagagt gaagcagtca caggacacaa
34741 aagtaaggag gaaagggaag taatgcagag gagggtggaa gcaatcacga gtgacccagt
34801 gccaagctgg ccacagtatt cttttctttt agttggcgga ctgaataaaa tagaggaaac
34861 atttgttgat gacccaaata ggtcaggatc agtgtccaga agattcaacc aagtggagag
34921 atgggctgaa tatgaataag acaatttaac aagaaagcaa aagccttggc acttggattg
34981 aaaatttaag tgtactaaaa aacagcagtt tgctttgcac aaagttcagt atgtgccacc
35041 ctcatccctc cctctcccaa gaaaaagcct aatctggggc atagtagaaa tacgttattt
35101 attttttatt ttatgttttg tagagatggg attttgctat gttgcccagg ctgttcttga
35161 actcctgacc gcaagcaatc ctactgcctc agcctcccaa agtgctggga ttacaggcag
35221 agccactacg cccagccaga aatccatgat ttcataatac attatgtaaa accacactct
35281 ataccctcat gatcagagca ttctgggagc atcctccata atcggactcc aggcttgaac
35341 aagatacaga caaaagagca cattctgagg ccatcaggct ctgaggccaa gctcacagtg
35401 gcccctgtga gaggggctgg aaataggata atctggcggg ttcctcacct gatagctaag
35461 gacacaccta gggagagtca cagagcagaa ataataaaaa agaagttgcc tttctggtgg
35521 aaggagagag agttcaggga ttgtgaaaga agagaaagtg ggctattgtg agggaaatgc
35581 catgtccccg ttcatttttg tgtaaaacta agctgaacct cacagcaaga agctagtggg
35641 aattcatggc tcacagctaa agctcatatt tgcataataa tcagacataa atatggaaga
35701 acatagtgat ttctcttcaa ggaagactgc aaggttaaac attctagtat gattcacgcc
35761 aatcctctaa gatgtattgg gatcagccgg ggaggcaatg cttagctgtt cacccctcca
35821 cttgattctc aagcgagttc tgaatggaca ccacctccaa gagctcggac tctgacaact
35881 agatctgctc tgagaaagta gacagaggca gctgagaaga gcctgggact caaacccatg
35941 acccacccac attccatcat ctgggagaag gaccaggcgg acatttctct aagtcaggaa
36001 tcaagttttg ttcattttgt agatttggcc tttcagacat aattaaaagt ccccatgaca
36061 tttaacaaaa gttttctaat tactttgctt ttgttctctg agaagctagg gctgtctcat
36121 tccatcatgc ctgaggtgta cattagatat tgtattaagg gtttatttca gcacactgaa
36181 caactgttct tttgaggtgc tagattgtta ctgggaacta gattgttact ggggactgca
36241 tgctcaggta aggatggaaa agtggaaatt aaggacctaa ataagtttta agttttattt
36301 ccccaccacc tagaccataa atctcattct gaaaaaaaat atagctgatt ttggtaatta
36361 ttaagacacc tcaaattaaa caggaaattt tcctggctca aagagatatt gataaatgac
36421 ttttcaaaga taggtaaatt ttcttactta aactaacaag atattagatt taaattttga
36481 gattataggt catgctctgt tggtatgata gtgttttatt aaaaaaactc acattttata
36541 tagtgcagta ttttttaattt taacatttac aacagatatt gcattatatg aagtcattct
36601 cacattgtgg ttgagataat tgctcaggct tgcaaagcta gttaagtagt gaggctggga
36661 gttaaaacac ggtcctttt ttttttttc tactgttcca tgctgctttt tcagtaatga
36721 tttatgataa ttgggttgta ttgtattcat ttctaggtga aagtctattt agtattcata
36781 aaacatccca tttaaatttt ctacaaaac gagtatgtcc agtgccatgc atatttgtat
36841 aaataataga ttttgtaacc tttttctttg ccctttctca caactgatat aataggagcc
36901 ataaaaatat ttagtgaaga aacatttaac ttaaatagca ggagataaaa gagcaatcca
36961 aagtgacagt tctaatcaag cataacacat gtaaacttcc aagtatatta ggtttcagtt
37021 cttcatcatt attcagaaaa atgtctttgt tacatgtctt atgagaaaag attggaggga
37081 agacagtgga gcagcgattc acattgtttt gagtattgac attgttggaa tacagcataa
37141 catattatat tatgaagttc ctgagtctga tcttttcaga aatatttcca aaaagaaatg
37201 gagcaatttt ccattacatt ttataaagaa gataattatt taaacatatt tctcctagga
37261 aggggacagc aaattgcact gcttttatg tgcagacttt atgagggaaa gaaagcgatg
37321 acaggaactt ggaaatgaag gcgtttatac attttagcta taaaaagcgt aagagagaaa
37381 aataaatatt tgttctgttt agcagatgat cccatattgc agtataaggc aatagaggtc
```

FIGURE 1 (continued)

```
37441 cctacatata aaacgtaact ttttttctttg tctgattctt acttttggtc ctgaaatgca
37501 gacgtgaata attagataac ttttatgatg tctatatatc tgtgggcttg aaaaagatat
37561 ttcacgaaga ccaatagaca tttgttatgt tgttgaattt gcttgagaca agacatcttt
37621 cattcatttg ttttcagtta cttgaaagac agtatgttta gctagctacc tatgaatgtt
37681 gccaaatgag atctaaggaa accatgatag gtgaaagaca tcagggcttt acattcctgg
37741 agatcagtca tggaaagaaa agccagctct gagatcagtc aattagccag gcatgcttag
37801 ttttctctgc taatagcaag gcttattttt gcccagtagg gtcaaatgtt aagaacagtt
37861 ttgattcagc agtagtgccc tttaatacat ttgaatttat ttatttcgga acatctctat
37921 actttcatta cacagcaaga cattttctgt tccttcaaca ttttttatttg ccagaagtag
37981 tttacgactt catgcagtct acttattatt catactcaac catgtgcaat cataataatt
38041 attgattgaa caatctggtc ttcattaaaa gtatgttaac tattctaatg aaataatatg
38101 catcatttct aatctacaag ggttggaaac ttttgaattc ataatattga ttatgagaaa
38161 ccaaatttca aaaaatatgt ctatgaggag aaaaataatt tctaaaattt attttttttta
38221 aatcagaccc aaattattaa aaacttcact taactaatga agttaaatgc ttgatgaaag
38281 cattaagctc tgttggaaat agttgtaaaa tatttagtat atggtacatc aaccctcttt
38341 gatacttaag caaccctagt accccccaggt cagtgctctg aaggcccttt aaatggagat
38401 aaagatcaga actgacacag ggaccccagg gaccaatcct ggaaaaatgt tttgtttgtt
38461 ttgtttttgta actaaacaaa ttcctgtgaa ccctttgttg tcgtttttct aaatccttca
38521 aaaaaagaag aagcatttgg aagacacaac agattcaggc gacaaaacat ttcaagtttc
38581 tgctacaggt agaatcgtat gttctttaga atttcagttg aaatagataa catatttcca
38641 tgatggactt gtattgtctc ttagagacac ttacaacttt tgttgttgtt gttgtccttg
38701 ttgttgctat ttaaataact ctcttcagca cgtagaatac atgccaaatg tatttgtaaa
38761 tgatttgtaa tgtaatttaa gtgatttgta aatgaatgat ttgtaaaatc tgtacattgc
38821 attacttcgg tccagagtta ggggccattt agatctggtg gctggtgtga atgaacataa
38881 gttcaatctc tgttcaaggt ttatttcaat gaccatagat tgtgtctcta actgttgagt
38941 catctcacaa atttatgact aaataggggtg tgggcaagag agaacagatt tacaaatact
39001 atctcaaggc ttgtcatcta catactgcaa caatattatt agtattgaat taataattaa
39061 ttggtatcta atgaatatta atattcgtat ctaattactg ttaaatagtg ctggtgtttt
39121 ctagtttatc tgtcaaatca aaacattagc ttaatttttt taagtatttc atatggaaac
39181 aatttaccag ctaattgtca aattatttat tttctgtgct tcagttttct catctgtaag
39241 ttagggcaaa agtgccaaca tgagagggcc tttgggaaga taaaaacaga taatatgcaa
39301 agtatttaac aaatcctagt gtatagtaat atccaaataa atgttagcac tagttattca
39361 agttttttcaa taattttaaa tgctttccaa tagaacagat actaacattc attcaacaaa
39421 tacttatgaa gcacgtatca catgcaagtc catggtcaga tgtgtatctg tgactatgtt
39481 caaaaccact tacaccctat ttttaaatac tgcgctatgt ttaaaatgtt tcctaagtgc
39541 tttgcagaaa aaccagacaa ggcagaaata agtcaaataa gccaaacagg tcatctctga
39601 cagcttatgt gaagtcttct ttctaaaagt tcgaaaatgt ggagtctttc tgtgcattca
39661 ctaagggagg atgggctgtc agctggcgga acagtgtgtg agatctttgt agatgacgcg
39721 gcaccatcca gaagggaggg tacgtattgc ctggctcttc tggggttgac tttattcttg
39781 gtgcaaccta acaggggattg gtcacagaga ggagtgatct ttgcatatga ttgctactgg
39841 gccctccaca gagtccaggc ctgtccggag accagcatta gacaacaaag aagcctcctg
39901 aggctgcgag gagcccgtca gccacttagt gagctgcctc tgcatctcca gttctgctgg
39961 gatccgggat tcttattatg gcctggcaac ctccaggtta ctcacaactg gcacaagagg
40021 gtatctgagt gacattgtta agcagtaatt agaaacagtt gattagtcag agtggtattt
40081 ggtttgactc ggggtaattt tgttttttgta agtcttgggt ttttttttttt ttttttgaaa
40141 cgaagtctcg ctcttgtccc ccaggctgga gtgtgatggc tgatctcggc tcaccagaac
40201 gtccacctgc agattcaagc gattctcttg cctcagcctc ccaagtagct gggattacag
40261 gcgcctgcca tcatgcctgg ctaatttttg tattttttagt agagatggag tttcaccatg
40321 ttggccaggc tgatctctaa ctcctgacct caggtgatcc acctgcctcg gcctcctaaa
40381 ttgttgggat tacaggcgtg agccaccgtg cccggccagt cttgggtatg tttttaggag
40441 ccgttggact tcagatataa aaagcaagct tgagctaact cctccagttt ccccatttag
40501 taaatgaaga aagcgatgtc caaagagggt gaatactctc catcctttaa aaaggataca
40561 aagcattgtt ttttttttctt ttacatttgt ttaagttcct tacagatgct ggatattaga
40621 cctttgtcag atgcatagtt tgcaaatatt ttctctcatt ctgtagattg tttactctgt
40681 tgatatattc ttttgctgtg cagaagctct tgtttaatta gatcccattt gtcaatttttt
40741 gcttttgttg tcattgcttt tggctattca caatagcaaa gatatggaat caacctaatg
40801 tgtgcccatc agtgacagat tgtataaagc aaatgtggta catatacacc atggaatact
```

FIGURE 1 (continued)

```
40861 atgcagccat gaaaaagaac gagatcatat cttctgcggg aacatggatg gagctggagg
40921 ccattaactt cagcaaacta acgcaggaac agaaaaacaa acactgcatg ctctctctta
40981 taagtgggag ctaaatgatg agaactcatg gacacaaaga agagaacagc agacactggg
41041 atctacttga gggtggaggg tgggaggagg gagaggagca gaaaaaacaa ctattgagta
41101 ctaggcttag tacctgggtg atgaaataat ctgtacaaca aatccctgtg acacgagttt
41161 acctgtataa caaacctgca caggtacccc caaacctaaa atacaagtta aaaaaataaa
41221 atgatacaaa ggggccatgt tcatggtagc taccagcaca ggctttggag actgtgcttg
41281 ggattttatt cttcctcctc tacctacaag ttttctaaac ttgagaaagt cattatatct
41341 tcctgtacct aaatttcttc atctataaaa tgggcctaat gataatgtca acctcagaaa
41401 ttgctgtgaa taaatgagat cttatgtagg tgtttagtaa aggacctgtg tagcctgtat
41461 taagtgttca aagttctctc attattatta ttgttgcatt gattgttatt aatctggggga
41521 gaccaacgtt agaaatttga aaccagaaga taataactga caatcaaatg tcccttcttg
41581 ctctgaaatt ttgactctaa accacaatgt gtctttctaa taagctagat aagtgatagg
41641 ggaatttttg tgtttagtaa catttgtttt tgttatttgt tattcatttg tatgtctccc
41701 gtgtcagtat tcaaagtact tcagagaatc agatactaat acataaaatt tatacttgta
41761 atgtaaaata tttaaaagaa tttgattaat ttataaagaa tatttgaaag tgtttgcgtt
41821 gggtttatgt ttcttgtgac tttaatctga aatgtttaag ataacatttc aaagtataac
41881 tatgaaaagg gaagctatat gtttactagg gaaaatatat agtgctatct ttatgacatt
41941 gagatagggga aaggcttgca ggtaagaaac aaaaccccaa aatcatgaag gctcgtaaag
42001 tcaagttcat caagaggcaa aactttggta ctaccctcaa aactgtttaa aataaaaact
42061 aaattggagg aaaatatttg ctttatgtgt ctgacagagg attctcctcc aaaacttatt
42121 tcaattattt tacaagttgg tcgggaaaag tcaaataaca cactaggaaa atgttcaaac
42181 tgtgagaata agatccgggc atggtggtgc ccacctataa ttccaacact ttgagagacc
42241 gaggtgggag gattacatgg ggccaggagt ttgagaccag cctgggcaac atggcgagac
42301 cccatctcta caaaaatatt tgtttaaatg taaaaatatg caattcatat tagaaaaaat
42361 acaaatggac aacaggtaca tgggaaataa aggacatctt taataaaaat gagaggaatg
42421 caaattaaaa caagatatgg tttttataac caggtaggca aatattaaga acctaagcac
42481 atctggtatg gcaggctgt agaggaagca gtgtcttcag acacaactgg cagagggagg
42541 tctgagttga tggggccatt tggaaaaaca atctggcagt atttattaga gctacacgtg
42601 caggctctat gttccagcaa tccccactcc cttacatcag ctctagagga acacttgcca
42661 aggggacatg aacgaaaaaa ttcattgtgt ggtgtttttc tctactgaaa aattgtgaag
42721 aacctaaatg cctttcaata gagtaatgtc tgaataaacg acagtatttt cctttttcta
42781 gaatgctaag cagaactaaa aagaaagcgt tagatagatg gatggatctc caagacatgt
42841 tttgagataa aataaccagt tgcagaaaaa tttatacaat gggatccaat ttattttaaa
42901 aatatagaaa gatataaaca aatgaagtat agaatgatgg agtcgtatat ctctatgtaa
42961 aagcacagga aaaggcatgg aatgatacat gtagcacata gctctggacg tccctggaga
43021 gacgctgaag gttgtgggac aggcaatcag gaggtgatgg ggttttatga ggcaaatgaa
43081 taatacagtt gttttctacc cgagttggga acagattaat atatagatag ggacccaaat
43141 atcagctctg tgactgagga aggtgataat ggagcaggtg gcttagtttc ataatcaagc
43201 aggcttgcag tggtcctgtt cctcacctcc tatcattttt tgctcccctg cattccctcc
43261 gcaccatcca ccagcaggct aagctttggg acagtccatg agaaagggag cttagttctg
43321 cataacctct gattggagcc agaaaataaa gagacggata gctcaatctt acagcatttt
43381 catagattgg ctccatcctc cttaaaaata tgagccagtg gtcaccacca acaattagtt
43441 aatgagttgc tccttctcat ccccaggagc agggaggatg gaagtcgtgg aacacaagga
43501 gctcaaggcc aaggttgctc tcctgctttt accattatga ctactattgt tccatgaagg
43561 tgagtatcac ttacaagtaa cagtatcacc tacaagtaat gttttttttaa aaagaaaatg
43621 tatccatgta atacacataa gcaaaccaa aagttcagta gaaatctaca atgatgttag
43681 gcatttttcc caacagtagt tacttataaa taatgttttg tttatttatt atttatactt
43741 acttatttat tatttataaa taatgcttcc aaaaatgatc ctgttaatat aaaacaaaaa
43801 ttaagatata aaacatgaga aactaaacag ctatgacatg aattttcttt taaaagactg
43861 gaaagcattt atcttgtaga aatttcaaat aagctttata tcaatatgca ctcaagatat
43921 tgaatagcat ttgcaaaata aattattaaa atgtctgatc atttactgtg tgctaggtat
43981 cctgctaaac acttcacatt ttttttcgtt taatccttct attaatacta tgaggttggc
44041 actctttttc agttaaggaa actgaggctg agaatggata aatatttgcc tgaggccccg
44101 gaaaatgttg gcccacttct actgtgtatt tatcttactt tttcttcatg catattcttt
44161 tctaactaca ggcccattat ttgctaagct gaataagagc attttaaatt aaaataaatt
44221 cagttgtttt ctcggcatat acatttgcag cgattcacaa acttcaatct tcatctactg
```

FIGURE 1 (continued)

```
44281  aggagaaaga gttctttatt cttataaact ataattataa gcattcaata ttttcagagg
44341  aagaaaatgt atctgtttat actaagtatt taaaaatcac ctacggattt gctctaattg
44401  tcagtttctc caaaattatt attgtttctt aatctcttaa caagtaatta taaatagatg
44461  tgttgttatg aaaaataaga aagatattcg gtgtttcctg tatttcataa acaccacgtc
44521  attttcttta tcaaaatttc cattgaaaga ttgtaagagc attaggccac cttctgggct
44581  taagtgtgta tgagaagaag ccacaacttc ttttccctct ggatcacctc aggtcttact
44641  ttacaatgtt acaaatccac acgagattaa tattcaaatc cgtgaacata tctttgtttt
44701  catttgtggt aaaggatctt ttattgtagg tgctgcttaa tgctgaatag gcttgaaaaa
44761  gatgtatctt caagtacagg tgtaaacaac atgtgatttc attaagatag acgtagctat
44821  attgcaatga tggcagtttg gtcagtttca taggtcaaca aacatctgtc agggtaagac
44881  ctcatgctct gaatatgcag gcagtcttat aattctgact atacatatgt ttattttttg
44941  taacttaagc aaaatttttt ttagagccag gcactgtggc tcacgcctgt aatcccagca
45001  ctttgggagg ccgaggcagg tggatcacga ggttaggaga tcgagaccat cctggctaac
45061  atggtgaaac cccatctcta ctaaaaacac aaaaaattag ccgggcatgg tggcaggtgc
45121  ctgtagtccc agctactcgg gaggctgagg caggagaatg gcatgaaacc gggaggcaga
45181  ggttacagtg agctgagatt gcgccactgc actccagcct gggcaacaga gtgagactcc
45241  gtctcaaaaa ataaaaaata ataaaaataa ataaataaat aaaaattttt ttagaaacag
45301  ggtctcactc tattgcccag gatggagcag cagagtgaga ccctggagtg cagtgacaca
45361  atcatagctc actgcagcct caacctcctg gtctcaagca atcctcccac ctaagcctcc
45421  caagtagctg ggactacagg cgcatgccac catgccaggt gttttaactt ggcttataaa
45481  ctctatcaga tctgttatta cagagaactg aagtaatcca aaagaaaagt attcggagac
45541  tttgagtaga ttctcaaaac aacagacacc caaatgctga aacattgacg ccctcgctac
45601  agtcagtaca ggaaaatgtg aatattatcc tggatgccat catagtgata caagttgcaa
45661  aggtgagagc ttgtatttgt caaagtgtag aagtggttct tcttacatca taaaacatgg
45721  atgctaacat ctagatgact taccttaaaa tcccattttt ttctcttttg atcataataa
45781  tgcattttgt ggtacaaata agagaggcta ttttctttgc caaaatagct tgagagtgat
45841  cagagccgag atatggaaac tatggaatac ctcatatttc ttctcctgaa agctgattac
45901  ccagatatcc aaattcatta ttctgtagtt tattctcagt gtattttcct aagatttgga
45961  aattagacaa gttcatacat ggggcccaga gtttcaagca cttcctgtat taacagtaga
46021  ttacaaagat agcatgaaaa atcggaaaag aattgaagat gccaactaac gcacctaaaa
46081  atcaatttca tgaacttgtc atgttgaaaa gtcaaataga aaataattta tgtgtgatat
46141  cagtaccatc ttttcctttt tttcttaaaa caaaaatttc ccttttattt aaagaaaaga
46201  gaaaaataag agaaaataaa gtatatgaag aatcacactc agaaattgct tcttcctgtc
46261  gtgcctcagg gatgtgaagc aaaaaaataa caggcatatt gatcataaag ctgacaggtt
46321  attggtgact ctaagagatc tattgtccca tccccaacta gcagcaaaag ttctgatgac
46381  atgtgaattg atatgaaatc aggtttcata gtgatttcaa agaaggtttt cagtttagtt
46441  cagggctgaa ggaaatgtct gtttctttgg agaggaaaga tgatgtgaca tagtgattga
46501  gtcttgaacc aggggccaga gtacgtgggt tcttccctca atctcacctc ttgggttctt
46561  tgtgacttgc tatctctgat cttccattct ttccttctta aagaatagtc cgtgccatgc
46621  ctgcatcaaa agagtcttgc gaggaagatc cagtgaggaa atgtgtataa ttgcctaata
46681  atatataaac agtactgtgc aagtagaagg tgtcattaat aacatcagaa tgcctttgcg
46741  attacaaatg tgggtgacac tgtgtgcatg agtactgcag gatgtggcgt ccaatcacat
46801  ggtggccctc cccggtgact caagaaagga tgcacatctc agcactgaag gagacctgat
46861  ttttctaaag tgaagaagta aaaatgatgc cagagaccaa actgcagtat aacattattc
46921  atgggggagt ctgtatcaca ggacatttaa agggagaaaa cttacgtata aaaaaagaaa
46981  atgtgctttc aactagaaca gcaagaaaaa tgattttttt taattccagt aaaaatttaa
47041  gccaaaacga aacaagagaa acttcaggag tctaccaatc ctagttgtaa tccttttgaa
47101  aaacaggaaa acttgagaac aagagaacaa acaaggtaga acaaagttgt ttttactggt
47161  ctaacatcct ctgtagtatt aattagatac atgaaacacc cagaaggaga actaagtgag
47221  agaaagagaa ggaaaggcaa atttaaagga tgtgactcct gttctgtgga gcagactcgc
47281  tttagcatcc tcttctgttt attaaatatt gtgtgcaaat gtctggggtg ccagctacgt
47341  tatggagttc ttggagatat gttctacagt gatctttcag ataaaagccc ttctttttta
47401  gatgagaagt ttaactgagt taactaagtt ttaatcaatt aatttaatct tgtcctactt
47461  ggactagaat ttagatgatg tcctgatttc tcatcttttt gccacctttc atggttttc
47521  acattataa gataagatca tttaattatg ggacagtgat ttcaactcat ttttggattc
47581  gtctagccat ctacactcaa aatcgtagtg tggcacatac ctctaatatt catatataag
47641  cccaaattaa ctatatcgta ataattttgt tatatccctt gagatacaat atacaaaagc
```

FIGURE 1 (continued)

```
47701 aagagataga atttatggtt gtatttgccc atgtgaagtt actgaagttt gaacaataaa
47761 tagctaacaa aaataaattt aaaagaattt cagataatta aactcaacat tattttaagg
47821 agctacagtg gcagggattc caggccaaat cacattgtaa agatagatag atagatagat
47881 agatagatag atagatagat agatagatag acagacagac agacagacag acagacagac
47941 agacagactg atttgggggg aagtgggagc aatttgtcag aacgtaaaag agaactattt
48001 gaattctgtc aaatcatttt acctggggaa cacttagatg ttggaggatt acctttcct
48061 ttggcttcaa gagaaaatag gcagtgtttt cagcaaacat catgattttt gatctctcaa
48121 agcctttgta ttgagaatac agatgatata tttgtctcta ttttgtactc ggatctggaa
48181 tttcctagaa tgttacctac aaaagattta gatataaata tcttgaagaa ctttcagcac
48241 aaatgtcaaa attttttctt tgtcacctgt ttaccaatta cagtatcatc acactaaaca
48301 cagactcaaa cttctcttca ttccactatt ccagaatgga acacaaaaat ggtatatttt
48361 gatctgtatt tattgccatt gattaatgtg gcattcgcaa acaatcccat ttgggcagac
48421 catgtttgca ttttaatttc attgcaatca acgtaatgaa gctattgatc gtttcttcca
48481 ttttcccttt catttgcctc ttaaatttga accgcagccc tttgtgcctc aatctgttgt
48541 cacagatgga atttcttaga atgcatttcc tgtttctctg aagcagttag aatcgaaaaa
48601 aatcacttca tatcatacat ttaaattcca ccaataaaat caaaactttt atgagtcatt
48661 atgcaattgt cccatagagt aaaaggttca gctgaaaagt gatatgtatt attatttcat
48721 tgcaacttta taaaactttc ctaggagaag tcattattta tttaaaaata aaaagcagtg
48781 gaagtctcta aaatatttt tacacatttc aggctaaggt ttaatattca tacatgtgta
48841 cacacacaca atgaatattt agaggtaaaa tttctgaaag aaacattttt atattaaaaa
48901 ggaagggact tctgattatg aacatgacta aataacaggt tttgaatgta gctactgaaa
48961 agtaatgaac tctcaaactg gacaaaaatg atgaagtaac tgttttcaga cattggacaa
49021 cttaccacaa agggctgttg tccattcaag atggaatcac aggcaggcag acacaccttg
49081 cctttagctt tctgcctggg gcactttcca cactgtggtg taaggcgttc acccagattg
49141 acagcagtgg tcttgctggg tggagggaac agtagagttc agggccactg acgcagctat
49201 aattttttgaa gaggcatatc cagagaggaa aaagctgcac ggaagcgtag ctctagaaat
49261 ctgcatatag gttctttttga gtcattggca tgcacatgtg aaactccatg atttctggca
49321 gagaagggct ataagaggct ctgagttgaa ctgggacact gcaggttcca cagtgctgag
49381 gggcactggc gttctgacct ggcagagtgg agtcatttca cgtaatacct caggcattct
49441 gttttgaaat cacagaaaag ccacacctta aaagtaggac tgacaaccaa attaaaaagt
49501 gagccaaaga cttgaattag agagttcatt ttaaaaaggt atacatatat gaatggttaa
49561 taagcacatg aaaatttgct caataccagt agttattaga gaaatgtgaa ttgaaacacc
49621 agtggcctat gtaccactat acacccattg gagtggctgt aataagaaac aagaatacca
49681 agtgttggca aggatgtgga gaaatgggaa ccatcatgca ttctgatgga aatgaacatg
49741 gtatatccac tttgaaaaac attttgctgg tttattgaaa tgttatacaa aaatttatca
49801 ttcaacctag caaattcact cctagaaatc taatcaagag aattaaaaac atatctacac
49861 agagatatgt acatgaatgt tcaccacagc attatttata atagccaaaa gcaagtaaaa
49921 atctaaatgt tcatcaacta gtgatcagat aaacagaatg tgtgtatcca tataatgaaa
49981 ttgtaaactc agttatttat aatagccaaa agcaagtaaa aatctaaatt ttcatcaact
50041 agtgatcaga taaacaaaat gtgtgtatcc atacaatgaa attgtatatt cagcaagtaa
50101 gtagaatgat tactggcata tgtattaata ttacatatat acatattaat aatacatata
50161 tacatataat taataataaa atgtattaaa ctagaaaaaa tgctaagtga aagaagccag
50221 acacaaaaga ctattaaata tatatgcaat gtctagaaaa gacaaactta tgaagtcaga
50281 aggcagatca gtggttgtct tgggctgaag ataagaattg aaattgactg gaaacagtgt
50341 gaaggaactt tctgggatga tggaaatgtt cttacacagg attgtggtga tggtgacaca
50401 attctataat ttcactaaaa ccatcaaatt gttaaaaaaa aaaaaaggc gtatactaac
50461 catacggtaa atgctaccta ataaagccta aagtcagttg attcaccagt aaattaactg
50521 cctgccagaa taaaactcaa cactaaagaa aggcaacaaa atccaaactc tcagcaacat
50581 agcagctgca atatcccata tgcgatgaaa gttactagac atgcaagaa gcaagaaaat
50641 gtgaccaaat acccaggaga aaataagttg aaataaacag acctgagatg acccagatga
50701 tgaaattatg aaatagaaat tttccaagag tattataaat ttgtttcagg attaaaagaa
50761 gagcatgagc attttttttt tttagcgaaa agatgaattt cagcagagaa atcaaaacta
50821 tataaattaa atacatggaa aatctggaac taaaaaagtc agaaatgaaa aattcactgg
50881 atgggctgaa tagcagattg aaacatgcag aaggaagtat cagaaaactt aaatatagag
50941 caagagaaaa tctaaattta aatacagaga agagagattt cttaaaaatg aagaatttca
51001 gtggttggtt gaaatattat caagtggtaa tcggggtcat agaaggagag cagagttcag
51061 agcagaggac acatttgcaa aaataatggc tgaacatttt ccaaaggtaa aaattactgc
```

FIGURE 1 (continued)

```
51121  tatagtttgg  atgtttgtcc  cactcaaacc  tcatgttgaa  atttgattcc  aatactacag
51181  gtgggggtct  aatgggaggt  gtttgggtca  tggggggcaaa cctctcatga  atggattaat
51241  gccctccctg  tggggtggtg  agtgagttct  ccctctgtta  gttgcacagg  aactgattgt
51301  taaagagagc  ctggcacctc  acccatccct  tgcgtcctct  cttgccatgt  tatctctgca
51361  cataccagct  cccctttgcc  ttccgtccac  cattactgga  agcagcttgt  ggcccttgct
51421  ggatatagat  ccccaatcct  gaactttcc   agctatcaga  atcatgagcc  aaataaatct
51481  tttttttttt  tttttttaaa  cggagtctca  ctgtgttgcc  caggctggag  tgcagtggca
51541  tgatcctggc  tcactgcaac  ctctgactcc  aggattcaag  tgtttctcat  gcttcagcct
51601  cctgagtagc  tgggattaca  ggtgtgcacc  accaggcctt  gctaattttt  ttgtagagat
51661  gaggtttcac  catattggcc  aggctggtct  tgaacccctg  acatcaagtg  atctgcctgc
51721  cttggcttcc  caaagtgttg  ggattacagg  tgtgagccac  catgcctggc  cataaatctt
51781  tttcctttat  aaataaccct  gtcttaggta  ttcctttaca  gcagcacaaa  cagactaaga
51841  aaatgactac  taacatctca  ttaaaagcaa  tacaagacag  cctatcaggg  actagcatct
51901  ttaaagagtt  gagttatcag  cctaaaatct  tacatctaga  aaattatcct  ttaaaaataa
51961  agtctgagat  attttcagtt  aataaaagtt  aagatcatct  gtcacttatg  gataacaata
52021  taaatgtcat  aaataagata  ttagttaatc  aaaccaaagt  gcatctttaa  aaaatgacaa
52081  gccacaacca  aatggggttc  ataccagtga  tgcaatgata  tctccatatt  agacaatctg
52141  ttgtttttacc atattaatgt  tacaaaggtg  aaaattcatc  atatcatctt  catggaaact
52201  atagagattt  tagatatgtt  ccttgagctt  tcaaaaatat  taacaaatca  tgaatagatc
52261  gatactttct  taacaaacac  acacaagttt  ctaggaccac  caccatgtat  aagacagcca
52321  ggggaaaaaa  agagaaatga  aaagtaggaa  aggaagaagc  aactatattg  atatttgtag
52381  attctgtgat  tgtacacatg  aaaaacataa  aaacaagtga  atttgataag  atacgaagct
52441  aatatcaaaa  ttcagttaat  tactatatc   aaaatcagaa  cttaaaatga  caccacttat
52501  aatagctata  agattacaag  aaataaatat  aagaaatata  taagatctat  ataaggtttt
52561  caaatgctaa  tgagtaacat  aaaaatatta  tccaaataga  atggtatgcc  ttattcctga
52621  gctgatagat  tcaatattgt  aaagttcaat  tttcttaaaa  ttaaatcaca  agtttaatgt
52681  gatctcaata  aaaataccag  agaaaaaaat  tgcttttgga  attaagtgaa  ctaattctaa
52741  gttcagtgga  aaaataaata  agcaagaaaa  aacaaataaa  ttctgaagaa  agattaataa
52801  actgttcctg  tccgtactcc  aaatattata  ggaaataaaa  cagtttatta  ttgacaaata
52861  tatatccta   taaatgggca  caactacaga  gtataaaaat  agataaatat  atgttgaatg
52921  tatactttgt  gtataataat  atttgaattt  cacatcacta  gagaaatgat  gattcattta
52981  gtagataacg  gtggagtgtt  ttaacagcca  atcaagagaa  aaattaattt  gaaccccacc
53041  ttactccttt  caccaaaata  aatttcagat  tgattaaata  tttaatattt  tttaaatgtt
53101  taataaatca  tgaaaatacc  agtaaaaaga  ctggataatt  attttttaata atatgagagt
53161  taaaaaaaca  ctttctaaac  actacacaaa  attcagcaac  tatagaaaaa  gactaataaa
53221  tttgatgaca  tagaaatttt  ttaaaaattg  catggataaa  aaatacaaca  tgcaaaatga
53281  gttataaatg  gataaaatac  ctacatattg  ttagaaaata  ttagaaaagg  ccaataattc
53341  aaaggaaaaa  tgaacaaaaa  catgaaatag  ttcataggaa  gagacatgtg  aatgaatttg
53401  gcatctttga  aaaatgttct  acctcattca  taagtgaaat  gtcaactgga  atttctgtac
53461  agtatccatt  ttccacgaac  gattaacaac  aacaaaaatg  tttgtgcact  atttgaagga
53521  ctatattgag  taataattaa  tttcatgtac  tattaatgac  agtaaaatca  ttagtctgac
53581  caatttggag  aacaatttgg  cactttctat  caaacatgaa  aaatgcatat  ttctgggaat
53641  ttattccatt  tctaggaatt  tattcttatt  gacatattca  catgtgggaa  aaatgtgaac
53701  aatgatattt  atgtcattat  gtgtaacagc  aaaagttgga  agcaagctaa  atggccaaat
53761  aaggaagaga  ttcaataaac  tgtaagatat  gccttcaatg  gaatactatg  gagtcactga
53821  aagaaaaaat  agtaaggcta  cttacattgt  attgttgtgt  tgtgttgtgt  tgtattgata
53881  tgttgctgaa  atatactaag  taaaaggaa   agcaaattgt  agaacaatgt  gtatattatg
53941  ctacctttc   agaaaaacta  taaatatgta  tgcacacatc  tctactctta  tcctttatgc
54001  agatttatgc  tgccaacatt  tgtaccttct  ggatacagga  cttgggagta  gtaggaacgg
54061  gaagaaatgg  gacaggctga  atcttcactc  tatttataaa  acctttagtt  ccttttgaat
54121  tatttaccgt  tcatatgtat  catttttaaa  aatagaaaat  aaaaatgttc  aaagttgaat
54181  aagcgggtag  aaacatttca  gtggctttcc  gttgaatcca  gaacaaaagt  ttctttccag
54241  aggttcaggc  cctccttgaa  ctggctcatt  cccgtttctt  aaatcccacc  ttgttcctcc
54301  cacctcctct  cactccgcag  tttccaactc  tattgacctt  ctctcagttc  cttgcacaag
54361  tcagttttgc  cgctttggag  cctgtgcact  gcttgctttc  tgcctgcaac  tcttttgtcc
54421  caactctgca  ttatcgggct  ccctctcttt  cttattcttt  tggctttggt  ggtcacccat
54481  tcagagagac  cctccttagg  catccactct  aacacagagc  ccgtttttct  tagtctttc
```

FIGURE 1 (continued)

```
54541 ttgtggcacc taattccttc ctttcatact caatttcttt atctgttggc tcttgtagtg
54601 tttttccaca cccctcccca ggatggtaaa ctccttgagt taccatttct attttattct
54661 cttgtcgaca cctgtaagag tacccgacac attgcaactg ggttggaatg ctaacatctc
54721 ttgaataaat taattcaccc atttaagacc aaaagtttgt attacaagtt agcaggaata
54781 aatgtcttac tgattggtat atgggtgtaa aaatatggcc ctgattttca gtatttaaaa
54841 ctctcaagat gccaaatatt ttctactgct ttctaagctg aacttccagg cacagctggc
54901 atatgcatat ttcttgacaa tctccaagtt ttgataacca aataagaaaa aaaaacagca
54961 cagaaaaata taattttggc tgttactaaa tgggctaata ataccagtaa tagtatttta
55021 aaaattctaa aaaatgtcta attctcacaa tagcattcta acagtaaact aagaggtaag
55081 ctaatatatt caagatacag agcaaccaca cttgtttagg agcactgtta ctttgtctac
55141 actgatttgt taaaacattg tccgttgtca accaatctaa aaaggacaca ataggctagg
55201 cacagtggct cacacctcta atcccagcac tttgggaggc ctaggtggga ggatggcttg
55261 agcccaggag ttcaagatca gcctgggcaa cacggggaga ccccaactct acaaaaactt
55321 tttaaagaaa ttagccaggt gtcgtggtgt gtgcctgtag tcccaactac tcaggaggct
55381 gaggtgggag gattgcttga gcccagaagt tcaaggctgc agcaagcctg attgtgccac
55441 tgcactccag cctaggcagc agagtgagac tctgtctaaa aaaaataaaa ataaaaataa
55501 aaatgaatac aatttttaaa ataaataaaa agaacataat aaaatatgtc cagaaatcaa
55561 tagtcaatat cgtttgatta attttgccaa aatccaatac acggtgtagt tacagagctg
55621 aactttaata atagaaccaa tgtaacatgg taatgctttt catattttaa actactttcc
55681 taaatgttat ctcatttgat gctcactacg aaaacacaat agagatcatt ttggcctgtg
55741 cttttgtaaa attatagaat attagacctg aaaaatatat aatgtcattt acttctattc
55801 ttcattttat agatgaggga actgaggcca gaaaacatga taaagtatgt tccattctca
55861 cagctaatta ggggctagaa ccaggatctc agtcctctct tgggccacta gacaattgct
55921 aactatgctt ctgcaacacc ttcatatcat atgactgact tcttaagtgt acaaattaat
55981 tttaggattt aaatcaatta caatatttct ttttaaaaca tggaatatgg ttcatccaaa
56041 agataatcta catcccacta cccatataga accattattt ttatttttgg atattttctt
56101 cagtattttt ctttgatttg tatgtttcat agaaatgtgt gtgtgtgtgt gtaatttttt
56161 cacctctctt aagtacatat ttttaaattt ttaaatggat acacaatatt tgtacatatt
56221 tatgcagtac atgtgatatt tcattacatg catagaatgt gtaatgatca agttagggta
56281 tttccatcac ctcaagcatt tataattttt ttgtattggg aactgatatg gtttggctct
56341 gtgtcctcac ccaaatctca tgttgaattg taattcccag tgttgcggga gggacctggt
56401 gggaggtgat tggatcgtgg gggcagattt ccccttgct gttgtcgtga tagggagtga
56461 gttctcatga gatctgatgg tttaaaagtg tgtggcactt ccctctttgc tctctcttct
56521 gccgccatgt gaagacgcgc ttgcttcccc tttgcccttc ctctatgatt gtaagtttcc
56581 tgaggcctcc cagccatgct tccagtacaa tccgtggaac catgagtaaa ttaaatctct
56641 tttcttcata aattactcag tctcaggtag ttctttatag caatgtgaga ttggagtaac
56701 acaggaacat tttaagttct attttgaaac atactttttt tttttttaca atacagctaa
56761 atgttttgta aaacatttaa aaaatgttag tcccacacag tcatgtaact tcaaacagta
56821 agctcatcac ctaatattat tgcatctgcc acttagaagc tgtgtgacta gaagctccct
56881 gggcctcagt tttctcatct gcaaaatagg gataataata gtggtaattt tatagagctg
56941 ttataaggct tactcagcct cccaaagtgt tgggattata ggcgtgagcc acagcagctg
57001 gcctatgtaa tttaattata tgcttttgc ttaacatatt attcttatat ttttattatt
57061 cctgaaagtt tttcattatt ataatttcaa tacttagtca atatgctgcc taatgaacat
57121 agtgtaattt acttatccta tttcccattt tggacagtga ggttgttttc actttttgct
57181 ctcataaata attctgaaga aagcattcca tatgaatatt attgtcaata tcactgataa
57241 tttctctagg ataaattcca tgaaggatga ttacagaatc aatgcgataa atatttttaa
57301 cactactgac tcatattgtc aaaatgtttt cttaaaatgt tgtgacaata tcattaaccg
57361 tgtgcagaaa aacagttttc aaggtcttat cctcattaga tgtagtcatt taaaagtaaa
57421 ttgctaaatt aataggctaa aatggctccc aattgttctt tcattttgca tttatttgct
57481 tattaatgag atcaaacatc ttgcaatttg tttgtttgtg gaatatcgtt taaagctcaa
57541 ttaatccgct atgttttta atgacaagct aagacactac agatgaaaag caatggaaag
57601 cagagatgtt tagtgacccc ctactacggt gctaagtatt tcaaatatat tgttaggtgc
57661 attaatatgc aagttatgag aaagagacga agcaaaagtc acagacttga gtgcataata
57721 cgacaaatac tacttcaaac tggctcagtt ttagaactta agggattta attctttttc
57781 atagttttta ctaaccaaaa gctttaatga gaaacaatta attcaatatt aaaaggaaat
57841 aataggtagc atgaatagct tttgcatgat gggtctagag aagtgttaag taggtacatg
57901 tggcaattga gtccttgaaa tggggctggt ctgaattgag atgttcaaaa atacatatgt
```

FIGURE 1 (continued)

```
57961 gattttgagg actcagaaca aaaagaagag aatgcaaagt atatcattaa tgatgtttat
58021 tgattatatg ttgaaatgta aatattttaa aatagtggat tgaattaaac ctattaaaat
58081 taatgttacc tatttcattt acttgtataa tgtgacttct agaaaattta taattggata
58141 tgtggctacc attggccagc acaggtctag ggaattatat gatatcagat tttaggaagg
58201 aagttataaa attttagttc ttcaggaaga gatctaaagg agagtacaga gagagagaga
58261 gagagagaga atctaccaca taactaaatt aagtaaaggg agtgctacag cactgaccat
58321 tatgaccaac caggaggtct ctgataaact cagatattta ttcataaatt cagattacaa
58381 agagcctacc acaaaggaca aacaggccgg acgcggtggc tcacagctgt aatcccagca
58441 ctttgggagg ccgaggtggg tgggtcactt tgaggtcagg agtttgagac cagcctggcc
58501 aacatgctga aaccctgtct ctactaaaaa tacaaaaatt aaccaggcat gatggcgggt
58561 gcctgtaatc ccagctactt gggaggctga ggtgggagaa tcacttgaac ctgggaggtg
58621 gaggttgcag tgagcagaga tcgcgccact gcactccagc ctgggcgaca gagcgagact
58681 gtgtctcaaa aacaaacaaa caacaaaaaa cataagtagc tgttgtcagg actcttacaa
58741 cagaatgagg tagaggaagc caaagggctt tgaaagctac attcagagca caaagaagag
58801 ccaaaaagga cagacactgc caggggaagc tgggaaaata ttaatataaa gaaaatcaaa
58861 ttatgcaatt cttattttgt ctttgtcctc tataaagagg aatgatcttc aaactagaaa
58921 agagagatga aatttcctca caagaaaaac tgaattcaag atagaaaagg atacttaaga
58981 gaatatcaag ttgttagaaa tacgttttca tctctgactc cagataaatt atatttcttg
59041 gtcatgaaat cattgatagg ctttggcact tgactggttc caaagttgga cgaatctagc
59101 tactagacga gttccctgag agcatgggtc tgatctcttt cattcattgc tgtattccag
59161 catctagaac atttcctggt atagagtaag tgctcaataa atatatgcag ataaatacat
59221 gaacagagaa cacaagagtg gccagattaa aacagggaaa tgttctgatt tcaaaatggg
59281 gaaaataagg attctgactt gtgtagatac ccaggcaaca tgcaggcaag atgtcagcgg
59341 ttaaaaaaat tttagaatgg attaattaaa aaaacaatct tccaatatgc caggattcct
59401 ctacaatttt acatctagtt taacccacac aataacacaa ttaactggtc ctatacacat
59461 tttacagata aaactgaggc ctaagaggaa tttaagtaac ttgcctggga gtgatatagc
59521 ttataagcag aaaagctggc atacagaatt taactactgg ttgtcctcag aaaggaaatc
59581 atggtgactc tgaaccaacc tgtgtacgat aatcatgagt atgctaaact ctcctagttt
59641 cctttttaaa tcaaattgct aaattggttg atgccataga taactggttt atgtacttaa
59701 aataaaactc attgagatct ttacctgtat ctgaatatat aaagaagttt ctagtagaac
59761 tactctgctg gataagacag aagttcagag atctaccaga ataactatcc gttcaccttt
59821 gcagaacttc ataaagccca ctaccataaa cacagggtaa ggggagttca gccaggcatt
59881 tgataaggtc ttttgtaata atcttgcaac taaggctaga tgacaatcag accaattagt
59941 agtatgtgga accactggtc cctattgatg tcaaactaaa aggaagcctc agtcttgtgg
60001 caaggggccc tgtccttgac ctttttgtat tgaaatatgt gaccagtgac ttggagaaaa
60061 taataatatt cccatgttta gctgatcaca caatttttata ccagttccta cacttagacg
60121 gttgtataca tcctcttcta ctttgtggtt gagaagcttc ctctagtaga agtgatgtca
60181 atggaattcc aataagaggt atgttctatt tagacattta atccatgaat ttgtatatat
60241 acattataag tcatctttgg cagttcagcc ctcagccaac agaatctcag tttctccatt
60301 tctatcatta ctccagaagg gttcttgggt gtggactagg cattctcgtt ggcatgcatt
60361 caagttctcc tctgtagcca ctgatcctgt tgcctctatc ccacagctct ggaatatctc
60421 caaataacta ctcttttatt ctccatgcaa atgaaaaatt ccattagggt gatgtgaggt
60481 tagttgttga cataacttcc tgcttcaaaa atccttcctt ccttcccatc atcatttgcg
60541 accccagtta cagctctgaa ttgtgatttc catttgtgac atattgcccc cgaagagaca
60601 gaagaggaac cttcatccgc catccccatg ttagaatcct cttcctaggc tctcagtgaa
60661 gttgcctcac tcgatctcaa gctgccggc atgtcacatt ccatttattt catttaacta
60721 agatttattt agctttatgc tatgctagga actgacaaga aaatcattat tacaattaaa
60781 tgagatttat tgagtactta ctttatgcca gaaactgagc taagaatgag gaataaaaaa
60841 tgtataaaga cacattcctt gctctcaaaa aatgtgaagt ttagaaagat ggaggtagta
60901 agtaaatcaa cttcaattca gggtaataga tgctagtaga ggcaccatgt gtgatgctgt
60961 gagacctcaa agaaagagtc tctaaatcat cctgaagagg aagtcacatg aggagagtct
61021 ttaagaataa gtatgtctgg ccttgtcaat taaaagagag ttgggagttc caggcagagt
61081 gtcagcatga atgaaggcaa gaacgactac tgggatgaag tgtggggagc tgagttcatt
61141 ttgacatggg aaaagtgtag aggctgggtg cagcggctca tacctgtaat cccagcactt
61201 tgggaggctg aggcaggcag atcacctgag gtcaggagtt tgagaccagc ctggctaaca
61261 tggcgaaacc ccgtctctac taaaaactac aaaaattagc caggtgtggt ggcatgtgcc
61321 tgtaatccca gctactcggg aggctgagac aggagaatca cttgaacctg ggaggttgca
```

FIGURE 1 (continued)

```
61381 gtgagccgag gtcgagccac tgcactccag cctggacaac agagtgagag actgtctcaa
61441 aaaaaaaaaa aaaaaagtaa agaaaagaaa aagaaaaccg tagagcagaa gggagatggc
61501 aggaaacaag gtgggaaggg taggttagat ttgtatcata gaatatttta gactgtctta
61561 tgaattatgt gggagccaag gaagggtttt aagctgaggt atggcaggat ctgatttgca
61621 tttcagaggg atcacttgtg gcagccataa tgaattaaga tggtagagaa cagacaagag
61681 gaaggacgga ctgttaaagt gatgggtagt catagaaaca aaaagtggtg agggtctgag
61741 ctggcccctg aaaacagatg ggtttgaaag ctatttagga ggtaaaatgg aaagaatgtc
61801 atagaaattt agatttgggg gtgaggaaga gggaggaggt ataagggaac ctgggtttct
61861 ggcttggacc agttggctgg acgtgggtgt cacatgcagg ctactgccta aaagcatagg
61921 tgactaggag aatgctattg gcctcaatgt tggaaatgtt gagtttgaga tgctagtgaa
61981 gcacacagag gatgcatatt agtcagtggc ctgaacttac aactccagaa gagcaggctg
62041 ggctagagac catagtctct atatggtcgt tacatatgga cgtctttata tggatatcat
62101 cagtatatca tggctgaaaa ccagggtctt gatgaagtca cccagggaga tggtataaga
62161 tgaacagcat agagaactaa gaataaaacc atagaaaaaa gttcattgtt ggtctttgtt
62221 gtcttatttg gttttgttaa aatgggggaat cttgcagatc ttttaaatgc tgacagaaaa
62281 gttaaaggag aaaatttgaa gatgcaaaga gaacatataa gtaataattt tcctgggagc
62341 agaaggtatt tatttattca ttcattcatt caataagtac tgagtgcctc tagcaggctg
62401 ggaataaaag gcccttccc tcatgcagct tacattgtag tggtaaggag agccccatag
62461 gaaataaata aatgataggg tgtgttagaa ggtgacaggt gctacagggg aaaacaaggc
62521 tgcataataa ggatgagagt gctggtggag agcacagtac atgtgagatt taaatagtga
62581 ttaaggaaga atttcctgag gaggcaacaa cagttcaaag gcaatgaaag agagaaccat
62641 gcagatctcc ggggaaagaa cgcttctggg gcaatctgct ttattcagtg tctactgatt
62701 aaatgttaat ctcatctaaa aaaaatacct tcacggaagt atctagaata ctgtttgacc
62761 aaatatctgg gcctagttga caaataaaat taaccatcac agaggccaac gacagacgca
62821 agaagaccaa ttaagaagct ctcgtgttaa cacagtggag aggtgttggt ggcttgagcc
62881 aggatgtcac aatggaggca gtgagaaatg gtcaaagcct ggatgtcttt gcaggcagca
62941 gtcactgtgc caggagtcca aagatgacaa gaaatgattc ctgtggtcaa ggtccttaca
63001 gtctgtaaca gttattaaaa ccataattgc ttatttgttc atggcatctt cattaccttg
63061 attatacctt cctggttcaa atcatattta acatctattc caacagaatg gcattggaac
63121 ctaccagaag acaggacacc agtcactaca caggactgat gcatacttat tcagtctcag
63181 gtatgtcttt atagcaatgt gagaacggac taatccctgc cttttcattg taatgactgt
63241 caatcctttt tttttttttt ttttgagatg ttgttttgct cttgctgccc aggctggagg
63301 acaatggcgt gatctcggct taccgcaacc tccacctccc aggttcaggt gattctcctg
63361 cctcagcctc cggagtagct gggattacag gtgcccacca ccatgcccgg ctaattttgt
63421 atttttagta gagatgggtt ttctccatgt tggccgggcc agtctcaaac tcctgacctc
63481 aggtgatctg cccacctcgg cctcctaaag tctgggatta caggcataag ccactgtcaa
63541 tcaatttta aaaacaaaca ttttcttctc tgtacctagt atgagacaat ttgagtgtac
63601 tatgtcaggt atttgagtgg aatatataaa atctatatgt tgtacaagtg gaaaacataa
63661 aagctatatg ttgtgcacat ccagcccttc tcgtagaatg tctagtacag agcctaacct
63721 ttgcttacct aaatcagggt tgtgctggtc tcatcaccat tcccaggaag ctgggtgctg
63781 ccctgtctgt ggtggggcac agaaacccat ttaccttcag tattcagata gtagagaaga
63841 tggaccaagt tggacttggg aatccccatt ctgattttga agtctaggct tgagatgggg
63901 actaagagat gagaaatgtt gtaaagatgg agaccaagac tgctggagaa ttgagtcaaa
63961 ctgagataga aggcaggact tgactccaga ggctgggctc agacaccgga ccagattgag
64021 gactagcaaa tacagggcca ggggcagaag cagctttcta tcagacagcc caggagtgtg
64081 ccatgtcaat ttactattgc catggcaaca cctgggagtt acttcccctt tccatggcaa
64141 gactccaaag ttactacccc ttccctagaa atttctgcat aaactgcccc ttaatctgta
64201 tgcaattaaa attgcgcata aatatgactg caagactgcc ctgaactgct actatctgcc
64261 tatgggtag ccctgctctg caggcgcagt tatggagctg taacactgct gcttcaataa
64321 agctgtttc ttctacctcc agcttgccct tgaattcttt cctgggcaaa gctaagtacc
64381 cttgtggcct aagctccact ttggggcttg cctgccctgc atcaaaacca tgctaatgtg
64441 gggcaggctt tgaaaaagcc tagagcctgg agtctagaag gccattattg gaggtagctc
64501 tcttttatgc atcctgcaag cacttccact gtgcattcca gattcattta aagggaccca
64561 gagatatgct tcttagactt tccaccaaag catctctcaa gccaaaggga ataaacaggt
64621 agcttcaaac agtctgcctc atgcctggaa tatatttgaa atctttttgt tttatttaa
64681 aaattacacg acttttgcat tctactttgt aatatcacca ttgttttaat aacccttccc
64741 cccaaattct tgacataaaa tgagcactgc agaaaaatgt ttcatattca tttttggcct
```

FIGURE 1 (continued)

```
64801 tatgtaatcc ttggcacaca acttgaccta agtcatgcct agcccagact gagaagcatg
64861 aacctacaga tgaatactga accattgatt gaatgtgtca tcattctttt gagacctggt
64921 agtttacaag cctagagcag agaagggaag ctagtaggtg gccaataaat catggttgaa
64981 tgatataggt cttctcatgt tctattctta atctaggcat tttcaaacac atgcttttct
65041 ttctctaaaa tcttatttct ctttatttaa aatcaaacaa ggctggttgc aatggctcat
65101 gcctataatc tcagcacttt gggaggctga ggtgggcgaa tcgtttgagc ccaggagttt
65161 gagacgagcc tgggcaacat ggggaaaccc cgtttctata aaaaatgcaa aaattagcta
65221 gatgtggtgg cacacaactg tagtcccagc tacttgggag gctgaggtga gaggatcact
65281 tgagcctggg aggtggaggc tgcagtgatc catcattgtg ccactgcact ccagcctgga
65341 tgacaaaggg agacccatct aaaacaaaca aacaaacaaa caaacaaaac aaaacaaaac
65401 attttttttga acatgtataa ggcacggtct gtagtattgg agaatcccag gatgaattaa
65461 tttggattcc atacttacaa tttcggcttt caccaatgac ttgagaagct gctaataggc
65521 ttctctgata acctatttta tcttcttctc ttttgatcct aattctgttc tatggattgt
65581 atactctcag atttattttc atcgtatttt gttttcatta agggatgctt gcaaaaagtt
65641 tagttgggga gtgaaaaaat aactcttatg tatatccaat attaaaagtt tcttttgaaa
65701 aagttttttt ctagtaggtc ctttctaaca tgtcttttga aaacagtata ggttggtttt
65761 atggctatgt atggggatct catgagaatg ccattaaaat aagcttttgc tgagttggag
65821 gataaaagga aatgggaaaa aatccaaatg catcccatta ttacaagaat ggttccctct
65881 acatttaaga aattattttt ctgcagttca gtgatttgga aaaacatgta ttttctagtt
65941 tcctaagaat aaaatgaatt aaaacgactt taaatactac ataggacaaa ttttaatttt
66001 ctactgcatt ctatcataga ctcttttctt ctatatttta ttttatttat atattttttg
66061 agacagggtc tcattctgtt gccaggctgg agtgcggtgg tgcgatcacg gctcactgca
66121 gccttgacct cccggggctc aggtgatcct cctaccttag cctcccaagt agctgggact
66181 ataggctaat tttttttttc ttttggtaga gatggggttt caccttgttg cttaggctgt
66241 tctcaaactc ctgggctcaa gcgatcctcc tgtcttggcc tctcaaagtg ctaaaattat
66301 aggcgggagc cactgcgcca gacccatatt ttgttatttt gagagattat tctacttcat
66361 aatttggaat gcatttctga ttttcttgtt ggaaatggaa aaatgactat tttaggttga
66421 atccattctt aattatcccc tgatacttcg tttaggacat ttctggatta cttttttctct
66481 tcctgttcct tttctctttt tttccagtcc tttcatgaca gataaatgtt ggttggataa
66541 accaaggagt tggtacatat cccaagaatg caaattcatt ttgatattaa atttaaaaac
66601 atattccaag gaaggtaaat tcaacccacc caccccctac ctcaaacact atgggtgctg
66661 gttcccattc tctcttctct tgacccatcc tctgtagcat gagcattagc cacgtgtcag
66721 aagagttaca gtcactagaa agctacctag aaatcagaat tccctcttct ttcaattgtt
66781 tttgaaagtt aagtcatcat agggcacacc ttctgaaatc cacagtctgt aatgaatgta
66841 aacacagaat gtgcatttgt gaactgtgcc ccaaagggtt ggctttctag attccaaaaa
66901 aggacaaaca ttttcagatg ttgaatgcac agtgatgtca gacatcatta gtgacagctc
66961 atttctgcat tttgtggttg gactctaaac tatgttatcc cagaagaagt gtctccatct
67021 tgccctggat ttggtgggag aaggatctga cacaggagc tttgcccctg aaaacagcac
67081 tgtggcagct ggaaatgacc ttatatggta gcttcgcttt cactccctg tcccagaaag
67141 atccgtatgg aatgtggtga cttttgatgc tgataaggac attccacagg agaatgctgg
67201 ggtcgggtag acgaaggatc cctgtgaacg gttacccatt aacactggct ctggtttcac
67261 accagtgaag agtggcagtc ggcatagttt tcattagtca gacattataa cctgagtttg
67321 gcctatttt ctttgaaaca tttggaattg tcaagccaaa atgcatttcc tatggagtga
67381 gtgagtttgc ctctgccagc ctttccatgt gatagtttat tattatagag gtgacatggg
67441 cacccagagt ccctggcaag ctattgtttt tctttgctaa gaacagcagg aagagacaaa
67501 aaaaagtcct tcagaaaata atttatctag acttttgcaa ggcaatgaga aaatgaattg
67561 ccattaggct gagcaatcta ccctgtatca ctgaggatag aaaatgtctc agaaggtcac
67621 tcatgtctaa gaagtttcac gtggatcttg gtacaattgt ggcttaaaat gtgaagttca
67681 ggccaggtgc agtggctcac gtctgtaatc ccagcacttt ggggggccaa ggcaagtgga
67741 tcacctgagg tcaggagttg agaccagcc tgaccaacat ggagaaaccc cgtctctact
67801 taaaatacaa aaattagctg ggtgtggtgg caggcatctg taatcccagc tacttgggag
67861 gctgaggcag gagaatcact tgaacctggg aggcggaggt tgcagtgagc tgagtttgca
67921 ccactgcact ccagcctggg caacagagtg aaactccatc tgaaaaaaaa aaagaaaaag
67981 tgaagttgtg aagttcaggg gttcagagaa aatcccttcc cctcataagt gaggaatgaa
68041 gaatggaagc actctgagga cacttccatg cagacagtca gatggacaca cccagtagag
68101 tggctttgta atattgcact gtctatcata ggacacttcc cagctaccag acacagagtt
68161 tctcttgggc tcagcccagt tttttcatctt tgtgttgcca gcaccacggc accctgcaca
```

FIGURE 1 (continued)

```
68221  gcacatagca ggtgttcaag cttcctccct tccccgtcta tcctcccctt tctccctccc
68281  tttcccccgc ttccctcaac cctcatctac ggagtgcttc ttatatccca ggcactgtgc
68341  ccaagcctgg tgcatggtga atttcagcaa catgcatctc ctaaatatta agaaaaaaaa
68401  tcccccgact aagaaccttt ggttttaac ctcattctgt gctatttca gtaacttctg
68461  gtttccacac taaaaaaatt tgcagtcatt atttattgag catgatctac agaccaggcc
68521  tagtaatagt cacctaattc attaattcac ttacccattc acaactattt attgagtacc
68581  tattgcatgt taagtgctgg aattacagca gtgaataaac acacaaagac tcctgaagct
68641  catgagtgtc caattacttg cattacctgt attaaaactt atattattca tgatcctcat
68701  gaagcttccg gtggggtgaa gggagagaag caatatgtaa gcaaacaata aacatgtatg
68761  acatcaggag gtaatcaata acataaaaat gtaatgacac gggggcactg gagagaacta
68821  cagcaggtcc tatgaaagct gggggaaaag catgatagcc agagggaaca accggtgcaa
68881  aggcactggg gcagagagcg cctgtgtgtt cgggattgtg ttttggctgg agcagaggtg
68941  ttgaggggga agtgatcaga gatgagatca cacagctggc aggggtgatg tctcctacag
69001  tttcataagc cactctaagg acctggctct ccctctgagt caaatgggaa gccagtaaaa
69061  aaatttgaac aaagcggctg ggcgcggtgg ctcatgcctg taatcccagc actttgggag
69121  gccaaggcgg gtggatcttg aggtcgggat atcgagacca tcctggctaa cacggtgaaa
69181  ccccgtctct actaaaaata caaaaaatta gccaggcttg gtggcaggcg cctgtagtcc
69241  cagctacttg ggaggctgaa gcaggagaac ggcgtgaacc cgggaggcag agcttgcagt
69301  gagccgagat tgcgccactg cactccagcc tgggtgacag agcaagactc catctcaaaa
69361  aaaaaaaaaa tttgaacaaa gctacgtggg gcatgatcta ctgcacggta cagtggttaa
69421  gtcctcgggt cttgggcaag gctactattt tggaattatg cctctgtttc ttgctagttg
69481  tgtgactgag gttaagttac tcaacttctg tgcaccttct gtgtgacaac catacctacc
69541  ccttgagtcg ttataagggt tatataaatt aatatttgta aagtacatat ttgttaagtg
69601  tacaaaatga atggattttt aaaaatcact taaaatgtac tagataatta tgaactgctt
69661  ttggacaatt aatcaagtga cttccctaag ggcacagatc atagatgaac aggtcaggat
69721  ccacacccag gtctatgtga ccctgaaacc catattttta gcatacagcg tggcacctgc
69781  ctctttcctc tgcaatctca gctgctggag ccatcattaa ttagatagta acagggtgta
69841  ttatgggttg tattgtgtcc gccccaaaat ttatgtgtgg aagtcctaat acccggtacc
69901  tcaaaatgtg accttatatg gagacaggga aatgtaatca agttaacgag gtcattagga
69961  tgggccctaa tccaatatga ctggtgtcct tgtacaaaga ggaaatttat ttttgttttt
70021  gttttgtttt tttcttggag acagagtctc gctctgtcac ccaggctgga atgcagtggc
70081  acgatctcag ctcactgcaa cctccacctc ctgatttcaa ccaattctcc tgcctcagcc
70141  tcctgagtag ctgggattgc aggtgcccgc caccacacct ggctaatttt tttgtatttt
70201  agtagagaca gggtttcacc atgttggcca ggccggtctt gaactcctga actcaggcaa
70261  tcctccctcc tcagcctctc aaagtgctgg gattacaggc gtgagctaca cacccatcc
70321  aaaaggggaa atttgaacac acacacacag agaaagagag agacagagaa agagagagag
70381  aatgccacat gaggactgga gttatgttgc cacaagccaa ggaattttga gaagcttgga
70441  aagaggcctg gaatagctcc ttccctggca tctttagagg aagcgtggcc ttccaaacac
70501  cttgattttа gatttctagg ctccagaact gtgaaataat acatttatat tgtttaagcc
70561  aaccagtctg tggtgctttg ttatggcagt cctagggaac cagaatgctg tctttagtta
70621  tcctcaatat tttatgcact caaagaagcc tttgccaaat gtctagtgaa gacacagtgc
70681  tagactcctt ccctagggaa ggcagctggg ttttgtgcag tttctatgtt gtccaaaccc
70741  tttgccccag gagtgggtga gaagctgcag caagtcactt acaatgaagg gtgattgcga
70801  gtaggagtga tcacctaggt ctctgatgtg tgctaatttc ctcctgtaat taacctgtca
70861  acactgtctg ttaataaacc tagggggttg ccaacattga tcaaatacaa cacgaggaaa
70921  ttggatccta tggaaaaaat gtcacatcaa agtttcagaa gcatttaaaa aaatctgttc
70981  tgattctgct gagtttttaa gtcagacaaa tcattcctga tgagttaaga ttgctggcac
71041  ctgggtcgtc tggtgaggca cctcgttttg attgccgtt gcatagtttc atttcagcct
71101  aagatcttaa ttcctgcaaa tgatttccct agcatatatg atgaaaagta atgtgcctgc
71161  tgaagatgga tttaaccata tttagctatt ggaaagacct tgtcaggaac catctttatt
71221  cattttttaa atgtttgtat agtggcatat gaatgttcaa taaatataat tttcatgatc
71281  acacaatatt ttctcttaac cttgatctct tctcctagat tatttaaatt ccctatgtta
71341  ataatagaaa aaaaggacct ataattgcta ttgaattcct gcagtttaca cactgtgcta
71401  gaaatacctg tcaaatttcc ctgtaactgc tgtgaaacag cctcagaagc cagcggggcc
71461  accagcagaa ggtctgatac cttctacctc acaattaatc tagatttggc ggggcatggt
71521  ggctcacacc tgtaaatccg agaactttgg gaggccaggg caggggctt actttagtcc
71581  aggagttcta gaccagcctg ggcaatacag caagaacagt ctctacaaaa taataataat
```

FIGURE 1 (continued)

```
71641 aataataata attagccagg tgtggcggta catgaccgtg gtctcagctt ctctggaggc
71701 tgaggttgga ggattgtttg agccccaggg ggtcaaggct gcagtgagct gtgatcacac
71761 cactgcactc cagcctgaga ctctgtctca aaaaaaaaaa aaaaaaatct agatttatgg
71821 atcatggatg tggaagaatc agaccttgct ttgaattcag ctgtgtcact cactatacca
71881 gtttcagaaa taccttctga gggccatgct ccctaaaaat aattttaata aagagtatag
71941 acagtttact tcttaaaaag caatttatta tctgaaagaa ggaaagttca tagtgattat
72001 tctggtcaat gcttcattca tgttgatatt tccatagata atagtagtta atttttggta
72061 gttgttgatt tacatgtttc attaacttag ctacatgcct tgtagcacct aacacctcac
72121 cctttttgag caatttctca ggaaaagatt ggtgatgact ttgtttttgta cagctgactc
72181 atcaccccaa actcgccctg tgatgagccc tgggaaccct tgcaaccttg atgacagcag
72241 tcaggaagta tatgcagtta agcaattccc atagaaggga agtgaagcag tgggtcacct
72301 gatactggag tctcataacc agactcgcga agtaggaagg aagcctcctt gcaggcggt
72361 tccaccacag tatgagcggc cacagaaaaa gttaccctga gtgttccgtg ctgcaccgcg
72421 tcacccagcc ccacattcat atgttgaagt cccaaaccct agtacttcag agtatgatcg
72481 tatttggaga tgagtcttta aagagataat tcagttaaaa tgggatcctg ggagtgggct
72541 ctaatccagt ttaaatggcg tccttagaag aagaggagag ggggacacag acacacacag
72601 agggaatccc atgtgaggac ataggagaa ggtgccatct accagccaag gagggaggct
72661 tcagaatgaa ccagctctgc tgacacctga tctcagactc ctccaaaaca gtgagaaaat
72721 aaacttctgt ggcctaaggt gcaccatctg tgatgtttgt tactgaagcc ctatctgact
72781 aatacagtgg gtgttgcgtt tatgcaacct tttccttcat agaatgcaga gggattaatc
72841 tcctacttct tgcctgtttt ccctcagcat tagccactct ggcctcctcg ctgttctgca
72901 cacgtgccat tccctctgcc tagaacatat ttctttcaga taccttcctg gctccttcct
72961 ttggttgctt taagtctgct ggcatcttgc cttctcggca ggtctcctct ggccacttat
73021 tcaaaattac aaaccatcca cctcctacca tcccccagca ctctttatcc tccttggttt
73081 taaaattttt ctctatatca caaggtcagg agatcgagac catcctggct aacacggtga
73141 aaccctgtct ctactaaaaa tgtaaaaaat tagcctggtg tggtggcagg agcctgtaat
73201 cccagctact tgggaggctg aggcaggaga atggcgtgaa cccgggaggc ggagcttgca
73261 gtgagtccag atagcaccgc tgcactccag cctgggcgac agaatgagac tccgtctcaa
73321 aaaaacaaaa aatttttttc tctagagggc ttatcacctc ccagcaccct atataatgta
73381 cttatttaaa catttaactt cttcattaga atgtaagctc catgaaggca gaaatttttg
73441 tctgttttat tcactgatat atgccccaca gtagggatag tacaggacat gtagtaggaa
73501 ctcaagaagt atttgttgaa tgaaaatatt aataataatc atcataatac ttaatgtgaa
73561 ttgagcaata tgtgccagat actaagtgct ttacgtgtat tggttcatta tacatgcata
73621 gatacactta atgtagtata gcttaattaa ttatgttaat taatatatga attacttcat
73681 ggttaaaata aaaatattcc tgtgtggtta aaaaatgttt gatttctttc ctctttgtta
73741 tatattgtgg gagtgaagga actcctctaa aagcagagta ggcagtgata aagcttgtag
73801 ggaaactttg attcaggaca aagaaagatt tgtcttttca gaaaggtggt tatatagccg
73861 ggtgtagtgg tgggcgcttg taagcccagc tactcggaga atcgcttgaa cctaggagat
73921 ggaggttgca gtgaaccagg atcgtgccac tgcactccag tctgggcaac agagccagac
73981 tctgtcttaa aaaaaaaaaa gaaaaaggag tttatggtac atgtgaacta gtatttacta
74041 gttaccaatg attcagtcct taccctgtgg gaggcacaat cccttcctca gccaaccagg
74101 gaaggaatgg ataaaacaat ctgcaaggta gaaagtgcag aaatgaaatg caaagactgg
74161 attacaaagc acgttatgcc tccgtccaaa cactccctac gtttctcacc atagccttca
74221 agataagaaa gagcttttga ttcgctggta taattttgaa gcagataatt tcttgaaaat
74281 attcgatttt aatcttggtt gcttttgtgt tttgtgatcc ttattgatta cctatttcag
74341 catagttaga gtagtttaaa gttgctaggg tcaattataa tgtaaaagcc atcaataatg
74401 ctgttagatg ttttaaaaaa atagaaaaaa atctagtgaa aagctatgat ttgaaagtat
74461 aacagctgtg aaattgctac ctttcctcct tctgctcatt catcatctcc cggcttgcag
74521 tatgttggag acagcgtctg gggactgaat tgaataattt gaaggggga aatgatacac
74581 ctttgtaaat taaacacaac tgccaggaag attgattaaa tacaacttaa ctgaaacctc
74641 attatagatt cagatgaagt tcctcatcag tctttctaca gaaaaaaaga agaaacagct
74701 cccaaatctg gatgtggttt cccctggaat agatctcact ttttaagaag ttttccttct
74761 gtggtgttaa aaaaaatcat ttttttttttc tgctgctgtt ttagaaatcc tgaaaagtca
74821 taatgcccga taaatgaatg ccccatttat gagtcacatt tacttttaca tatatatgtg
74881 ggagactccc tagaggtgta tctgaagatt actaatggaa aatcttgatt tattaactca
74941 ggggaagcta catagactgt ctccaagagt tctgtactcc tctctcttat aagagtactt
75001 tgaggccggg cgcggtggct cacgcctgtg atcccagcac tttgggaggc tgaggcgggc
```

FIGURE 1 (continued)

```
75061 ggatcacgag gtcaggagat tgagaccatc ctggctaaca cggtgaaacc ccgtctctac
75121 taaaaataca aaaaaattag ccgggcgtgg tggcaggtgc ctgtagtccc agctactccg
75181 gaggctgagg caggagaatg gcgtgaaccc gggaggcgga gcttgcagtg agccgagatc
75241 gcgccactgc actccagcct gggtgacaga gcgagactct gtctcaaaaa aaaaaaaaaa
75301 gaaaagaaa aaagagtact ttgaataatt ttccctcacc actttccatc atatatatat
75361 gtatatatat atacacacac acacacccac acaacataaa catagatatt tatgtataca
75421 catacatata tttatataaa cacatatgta tattcataca tacatccatg tgtgtgtcta
75481 tatatttagt attgcccgat tttgaaaact aaaaatgatg cattttcacc ataaagaaat
75541 atcatgtaat gcaggaaaga gcaaagaaga aactaacaaa tcccacaaaa tcacatctcc
75601 ccaaggaaaa aaaattagtt tggtccatgg tgaacatcat tctagatgtc actttaagcc
75661 tatattgcaa agtaaaatgc tttcaggagt caagaggaac ttccgtggtt gagactgatg
75721 tgaggagact cattcaatcc tctcagtcta ccttgagcct ttccacatgg tatggagaaa
75781 tatttctgta ccctaaaaaa aatttttttt aaactacagg gcaagcaaga tgatatatag
75841 caaccaatgc tttccttgtt gggagaacaa taagagtgat ggcacctctg gcaaactgaa
75901 gaagacatgc cccgtccgga gggcacaggt atttctcagg taaagtaggt gattgccaag
75961 tggcaatgtg gtcccagtgt tgtcagaact tctgttctgc tagaagtgag acatttgact
76021 tcgtactaga aactttctaa tttaaaaata ttttctcaaa attgtttaaa gactctatgt
76081 ggtggctcac cctttttaatc ccagcacttt gggaggccaa ggcaagagga ttgcatgagc
76141 tcgggagctc aagaccagcc tgtgcaacat agtgagattg catctctaca aaaaatacaa
76201 aaattatcca gtggtggtgg tgcagtagcc tgtatccagc tactcaggag gctgaggtgg
76261 gaggatggct tgagcccaag aggtggaggt tgcagtgagc caagattgtc ccactgcact
76321 ccagcctggg tgacagagcc agactttctc tctaaaaaaa aaaaaaaaa aaaaaattgt
76381 ttaaaagtgc tgcaacgtag cctactcact gctatttgtt agggacagtt agataaatgg
76441 atgggtagaa agatctatag ataaataacc agcaagtcaa atgattattt aaaaataaag
76501 taattctata gaagctactt actttttaaa aatcacaata gatctatata taaataacca
76561 gcaagtcaaa tgattgttta aaaataaaat aattctatag aagctactta cttttaaaaa
76621 aaaatcacaa ttttacttaa acttgataga agaaaaacag gccaggtgtg gtggctcacg
76681 cctgtaatcc cagcactttg ggaggccaag gcgggcagat cacgaggtca ggagatcgag
76741 accatcctgg ctaacatgct gaaacccat ctctactaca aatacaaaaa attacccagt
76801 gtggtggcac gtgcctgtag tcccagctac tcaggaggct gaggcaggag agtcacttga
76861 acctgggagg cagaggttgc agtgagctga gattgcacca ctgcactcct gcctgggtga
76921 caaagcaaga ctctgtctca aaaaaaaaa aaaaaagaa agaaaagaa actgacatta
76981 aactgaaaga gttgctaaac ttcattaagc atttcttcac catcaaagag tcttctaaac
77041 ttaagaaaat tattgtggaa aacattatga gattggagac ttaattatta caataaatga
77101 tcactgtatt tttaactaca ggtatatgct ttagtttaag actatacaga ttgacttcct
77161 acttttagaa gatttctact ccttaaataa ttttttcttg gtttgtccca agactatctt
77221 atcagcctta gtccactttt ctcagaatgg tagggaatta tgagaatctc ataatgtgaa
77281 gtggtcttcc ttccttagta cttcttccgg aggcggaacc atagcacttc tgaatcttct
77341 gtttcttttc atagactgta ctctttgatg tttatggaat aatgctatgc cctttcctta
77401 tttggttgtt gctagagaat tttttgcatt cttaaaaacc acttttcagc caggtgcagt
77461 ggctcatgcc tgtaatccca gcactttggg aggctgaggt gggaggactg cttgagctca
77521 ggagtttgag accagcctag cagatccccg tctctacaaa aaatataaaa attagccagg
77581 tgtggcggtg tgtgcctgta atcccagcta cttgggaggc tgaggtggga ggattacttg
77641 ggcccagggt gtcaaggctg cagtgagctg tgattgtgcc actgccctcc agcctgggtg
77701 acagagtgag aacctgtctc aaataaataa agaaattaaa taaaacaatt tttcatatag
77761 aggtatcaaa gcaagtggtt tttataatcc tacaagattt tgctgtattt atctagaaac
77821 ttttctcaac tatctttaaa gctagtgtaa tatttaccaa gaaactgtta tatgcaatca
77881 atatttatca taccagatag tgtgactcat aaagtttatt ttcaagcact tgtgggtgta
77941 tcattaattt agcaatcata tactatccta tatcatgcgg ctgtaattac atgtctgcat
78001 agccatatat actatatatc aatttcctgg gttattcgac agtggtgccc ccagttacgt
78061 ttttaaaatt taatgtattt tacgactaaa atagatctta tagatcagtc aactctcatc
78121 ttacagatga tgcaattgaa gctcagagat caatttgaaa agcttttaag tccttcaagg
78181 gactggaaat cactcaagct ttttgtaccc tcactccttt tttcatctct ggtgtgtaga
78241 accacacctt gtgtgattac agatagatca agcccaataa gaaatctgct gccctaaact
78301 ccagtattga gaggctgctg gcggtaagtg aagaggcttt ccacattttc aaaccaacct
78361 tcctgcccat gacttcataa gcctatggat gctgcttacc tgtgtgttaa ggtgtggtag
78421 gtgccggcct tcatggtcgg tgaaaatgtg tctgtattag tccgtttttca tgctgctgat
```

FIGURE 1 (continued)

```
78481 aaagacaaag ctgagactgc acaatttaca aaagaaagaa gtttaattgg aaaattaaac
78541 ttttccaatt gtggcgggga aacctcacaa tcatggcaga aggcaagcag gagcaagtca
78601 cgtcttacat gaatggcatc aggcaaagaa agtgagcttg tgcaggggaa ctcctctttt
78661 taaaaccatc ggatctcatg agactatcac gagaaaagca tgggaaagac ttgcccccat
78721 gattcaatta cctcccactg ggtccctccc acaacacatg ggaattcaag atgagatttg
78781 ggtggggggga cacagccaaa ccatatcagt atctatctcc agattttgta gtaaaatata
78841 gattcaggga atagagcttc agaaacaaag tacccccttga tttacaacta cctatttttt
78901 ttttttttttt ttttgagaca gggtctcact ctctcatcca ggctagagtg cagtggcatg
78961 atcatagctc actgcagcct caacctccta ggctcaaaca atcctcccac ctcagcctct
79021 caagtagctt ggactacagg cacatgccac catgtccggc taattttttgt gtttttttgta
79081 gagaaggggt ttcaccatgt tgcccaggca tcttaaactc ttggactcta gtgatccacc
79141 caactcagcc tcccaaattg caggtattac gggtataagc caccataccc agccgtgact
79201 acctgattaa gagaatttcc caatctagaa agctttatca ccatttggag atcagaagtc
79261 tggatgaaag aaaagaacta ccttatttat ccctctgagc attttatttt atataatatg
79321 ctttttaaaa tatattttga ccagatgctc cctcctgcac caacccctcc tcgccaccaa
79381 cacacataca tgctcttgtg tgtgggattt gttgttgtcg ttgttgttgt ttggcttttg
79441 gcttttgtaa aaataggtgc tgtggtcagt acaaataatc cagtggtctt tcactcatca
79501 cattgactcc tcactctcca ttcaagatgc tttcatctga catttaaaat tgtaggcata
79561 agcatcccag cactttggga ggctgaggcg agcagatcac gaggtcagga gatcgagacc
79621 atcctggcta acatggtgaa acccccgtctg tactaaaaat aatacaaaaa attagcctgg
79681 cctggtgatg ggcacctgta gtcccagcta ctcaggaggc tgaggcagga gaatggtgtg
79741 aacccaggag gcggagcttg cagtgagcca agatcatgcc actgcacact ccagcctggg
79801 tgacagagcg agactctgtc tcaaaaaaaa aaaaaaaaaa aaatcgtagg cataagcatg
79861 caggtgacag tcagccgtac catcacatcc acatgtaact atttccctca tgggaagtaa
79921 ataacttctg agtttttact aaaggacaca atggtccaat agatgtgtgt gtctgtgtgt
79981 gtgtctgtgt gtgtgtggaa caatgttcaa ccaacccttg atactttaca ctgaagaaaa
80041 attaaaaaga gacctagaat gaagaggatt atcaataatt tattgaagaa attctgttca
80101 ttttgataaa cattcattgt caatttattt tacattagga atagtgctat acttctagcc
80161 ctgttactca catccttcag catctacata aattatccat ccaaaacct ggcttcccag
80221 ttcccagacc cctttatgcc cactcatttt tttctccacc acacctttgc tatatattct
80281 caaggctttt caatatctgt aactacacca cctcagcaat ccccatttta agtgccctgt
80341 ctctgattac agcctccagg ctttccctaa tatgcccact ccaacactat cttgacttcc
80401 cagatactgc caatccattg gcattatttt aaaacatcat tattattttg aaatatgtca
80461 agaatcattt cacacataca aacaatataa agaataacac agcagtcata tatctactat
80521 ctaactatag atataaaata ttaccaagag cattaaaccc cattacatag ccttcccaac
80581 tacatccct agataactac tatctaaact ttgtattaat aactaccatt ctcactcatt
80641 aattttttttc ttttatctct ctacaaaata ctgtttcgtt ttgcatgctt ttaaacttat
80701 aattactggg atcatacaga ctgtattcct ttatgacttc cttttatttt ctcttgatgg
80761 aatgtgagag tcgtccctgc tggcctgcag cactagttca tcattttcac ttccacgtgt
80821 tattatacgg tgtgaatata ccatcattat ttaaaacaca tgtttctgtt gatgggcatt
80881 tggttctccc atttgtttgt tttcaatttc aaacgatgct acagtgaaca ttttttgaaca
80941 cctccctgtg cacagataaa tgtgttttttt ttctggaaga catggccatg ccacgggcat
81001 acttattttc atcttaactg gtgctgtcag attatttcct gtgaattccc acctttttccc
81061 cttcaagcag ctcacgtcct tgcttcttttt cttgcccagg ttagattccc tgaagcatca
81121 ctaagtgatt cctttccata tattgtggcc acctgacctt ccctctttca ctgagccttc
81181 ctagcaaagc cccgtctttg gcttaatcca attcttatta ttctgaactg aatgtagaga
81241 ataacagagc tctgctgact gatccgctgc acccatgcga cctcatgggt gcccttactt
81301 ctaccaggca gtcccagctc attccctaaa caattctctt tcccagacaa ctgttcacac
81361 ctttctcctc caacttctgt cttcactctc aaatgatgac cgtttcccct tcttttacaa
81421 tactataaaa agcaacccga ggagaacttt catgtcttcc cacctcctga tcagtcagcc
81481 tgctgccggt gaccctctgc cgtcccacct gccacaaaag gggaactgtc tctgatcctg
81541 tctaaagcca accccctcttc tgaacactgg gttccatctg tctgacaccg ctaaaggttt
81601 ttctactcta attttctcca ctgctcccat atcactattt cctcccttttc ttcaggatct
81661 gtcattagca tacagacatg ctctaatatt tcccgtctta aaataaaaat gtcctatcct
81721 cctgtcttcc acttcctcat gtatctgctt tgttgtatgg tgagctcatc aagagttatc
81781 tataccgatt gtctctattt cctcattcct atctgagttt tgacacactc agtgaaaccg
81841 ccattgccaa gccattgata acctccatgt taccaaatcc aatgatcagc tctcagttct
```

<div align="center">

FIGURE 1 (continued)

</div>

```
81901 tatcaacttt acagcaacag ttgagccagc aacctctgaa tgttcagaga ggctgtagct
81961 ctgttgctga ccaattcaaa ctggtctgca atttgagttg aatcctggga gttgagcctt
82021 gaatctgcag ctccacctga ttttcttcac taggcttcca aggcactttt cctgttatcc
82081 tctccctgcc tttgcctccc cactgcggct tcttctctgt ttccttttct ggatcttctt
82141 ttccttcctg gcctctaaat gtttgagtac ccctaggtac agacctcgct tctcgatcta
82201 cagtccaccg cctgaagctc tcatctgccc catagctttg aataccatga atatgctggt
82261 aactcccaaa agcatatcaa caatcccctt taagggacac tgatatgcac ccctgtttat
82321 actccacatc tttacttgga tatcaatggg catgcgtacc aaacaggatt ctaggttctt
82381 ccctcctgtt tgtccacaaa tagctctacc ctccacctag tttcccagac cacaaacctg
82441 ggagtcatcc ttgattcctc tttttatctc acatcccaca accaatctgt tagcgtgtct
82501 tgtcatccca aattagcata tgtcccctga ctctgaccca ttttcagaac cttccctacc
82561 agcatcctag tccaagccac tttccctctc ccaagctact gcagcagcct cctaaagatc
82621 tccctgcctc cattcttgac cctacacagc atgcttacag aaaatcaggc cagtcttttc
82681 ttgtttcctt tcatcttccg aaatatttat tgaggtataa catatgttcc gtaaggggtt
82741 caaatcttaa tgttcaactc agttttaca gatgcatttg ctttggtctg atgttggtgt
82801 cccctcctca aaatacatat gttgaaacct aaacccaaca caatagtatt ttttttttt
82861 tttttttgag acagagtgtc actctgttgc ccacgctgga gtgcagtggc acagtcttgg
82921 ctcactgcag cctccacctc ccaggttcaa gcaattctcc tgcttcagcc tctggagtat
82981 ctgggattac aggcatgcac cactgtgccc atgtaatttt tgtattttta gtagagacgg
83041 ggtttcacca tgttggccag gctggtcttt aagtcctgac ctcaggcgat ctgcctgcct
83101 tagcctccca aagtgctggg attacaggcg tgagccacca gcccggccc ccagtgcaat
83161 agtattaaga ggtgaggtct tagggatga ttagatcatg agagcaaagc cctcttgaat
83221 gagattaatg cccttataaa agaggttaga cgaagcttac ctcccctttc actcttccac
83281 catgctagga tacagctaga aggctctatc tatgaaggca acatccatgt ctgcccttac
83341 cagacaccta atctgctggc accttgatct cgaacttcca agacttcaga actataagca
83401 ttacatttct gttgtttata aattatgcag tccaaggcat tttgttatag tgcccaaacg
83461 aatgaagaca ttgtatgtgg aacatctgtg aggatataga ccacttctag caccccagaa
83521 acctcaacca tgacctctcc cagtctataa ctcccaaatg taacaaatgt gacttctatc
83581 atgatagatg acctccactt ttttgaactt cgtatgaatg gagaaatact gaatgtattc
83641 tttcatattt ggtttctttc atctcttcat taggtctgaa aaaaatttct tctcttgtat
83701 ttagctgtac cttgtgattt ttctttgctg ttatcttcca ttgtatgaat ataccacaat
83761 ttatttatcc tttgtaaagt taaagaacat ttggtctatt ttttagcttg gggctattat
83821 gagtaaatat gctatgaatg ctcttgtaca cgatttttag tgaacagaag ctgttatttc
83881 tttggggtat atttttcaaa tttttctatt tatttttagc tttatttatt tatttatta
83941 gagatggggg tctcatttta ttgcccacgc tggtctcaaa ctcctggcct caagtgatcc
84001 ttccatctct gcctccccaa gtgctgggat tacaggtgtg agccactgaa cctggcctct
84061 ttgggggtat atttatttgc aggagtggaa ctgcttggtc aaaagaatat gtgtgggcca
84121 ggcgtggtgg ctcacgcctg taatcccagc actttgggag gttgagacag gcggatcact
84181 tgagatcagg agtttgagat cagcacggcc agcatggtga aaccccaact ccactaaaaa
84241 taaataaata aataaaaata aaacaaagca aaaaacaaaa attagccagg tgtggtggca
84301 ggtgcctgta atcccagcta cttggtatgc tgagaggcag gagaatcact tgaacccggg
84361 gagtggaggt ttcagtgagc cgagatcacg ccactgcact ccagcctgga tgatagagtg
84421 aaactccatc tcaaaaaata aaataatta aaaaatttt aaagtatatg tgcattcagc
84481 tttagtagat actgtcaatc cattttccca agtggcttta ttgactcata ttcccacata
84541 agatacgaag attctggttc ctttacatct tcaccaacac ttttatttta gccattcttc
84601 agtgtcgtag tcatttttta acataaaaat caaagcacaa actgtctcct gactacaatt
84661 tcccagggct cctcctggca cttctctggg ccatccttcc cttttcatcc ctccccctca
84721 ttgtcctgct ccctcactcc attcaccagg actgtttcca cctctggata ttttctctcc
84781 gttttcctaa gcctggtgtg cccttttccc agacatcgaa gtcctttgct ctctcatttt
84841 cttgaattcc cttctcaaat gatacctcct tagagagatc tttgcctcct gccatgctcc
84901 tattgcaccc tatcttttta ctctgatttc ccttcacagt acttatcggt tgttgacctt
84961 acgtcataca cttgtttatt tgtttattct tggtttccct tggtagaatg cacactctat
85021 gaaagcagga aagttgtctt tcttgatcat ctctgcatat tcggcgttca gtgccggca
85081 gagggcctgg cacttagcag gctctcagat gtttggtaca agagttctct atctgagcga
85141 attctttctc cccagcaatt ttatcccatc acttacactt ataatcatgt tctcctcttt
85201 tctttcatcc aatcttcatt tttttttctat tcacttctct tctaccttct cttttccttt c
85261 tcctactcta tttcattatt cataggaggc tttggaatta cagagacggc ggggcctcag
```

FIGURE 1 (continued)

```
85321 gttggatgct gaacattaaa gctctaaatt gcagggcagc aggcaaggga aaaagcagag
85381 ctaacacttc ttttgcaacg ttaaaaatgc attatgacag gcctggtggc tcatgcctgt
85441 aatcccagtg ctttgagagg ccaaggcagg aagattgctt gagcgcagaa gttcaagacc
85501 agcctgggca acatggcaaa accccacctc tactaaaatt acaaaaatta gccgggtgtg
85561 gtggtgcata cctgtagttt cagctacttg gaagctgagg tgggaggact acccgagcca
85621 gagagactgc agtgagcaga gatagcgcca ctgcactcca gcctgggcga cagagcgaga
85681 ctccacaccc ctccctgcaa aaatgcatta tcatactcta cactttatct tgaatttagc
85741 tgaaggcttt catagaaatt ctcctctctg tttctctatc cctctgcctc tttccttttc
85801 tctacacctc caactagaca tttcacagac aaatctctgg agtagagtcc attctatgta
85861 acagcaagcc cctcatgctg ttggtcacaa aaccacactg tcagagccag agacagctgt
85921 aaaccctgct ctcccagatg gagagcagcc ggagccggga ttttggtaga gggagttggg
85981 aatacattag ggaaagtcta atgagaacaa aagaggcagc tgaatattcc ccactccacc
86041 ttagtgtgca agagggcagc agtccagatt tttcatggcg ttgggtgtctg gcaggtcgt
86101 tagtctctat ccaacaagca ttagaaagaa acagaaaata acatatatct gggggtgtgc
86161 ctgcctgcct ctgtcttgtg caaacaacaa taactggaaa acacgactta gcccccttact
86221 tgatggaggg agaaatttgg aactcttctg agatgatgaa agaatagaac tagataagga
86281 aagtaaaatg ctgttcctgg tctgaaaaag agaaatgatt gatctgtagt aacaccaact
86341 acaaagagta caatccaggt agactcctct gacgctggca ccctgtcaca gagagggga
86401 agaacatcag gcttattcgc atgtgtgcaa atggccaagc actaatgtag gaggactgac
86461 gggagtctat ctatctgtgg cttctgggta gacacaggca agcctaaccc tgcccgggcc
86521 tgtgtctgat ggcgaggctt ggtatatact acaagcacct tgtcattagg gttttatcgt
86581 gctatggata tgctaacgat acatttataa acaaagtttc taagtagtgc aattgccgag
86641 gaaaaactga ttgatttata caagtgtgga ttttttttag acatcccgtt ccatgcctta
86701 gggtttctag tgttctctag ctgggcaagt ccagactcac tttggtcttg ttctgggtgt
86761 tttccgaggc tgtgctcgct ctgtgtggat gacatgagtg tgtgtggagt ttatggctgt
86821 gataaaatac agctctggca tttgctgtgg ttccctatcg aaagccacgc tttctcggca
86881 ctggttgcct cccactgtag aatctgaaaa tctcagataa tcacattcct ggtgtgtttg
86941 tagctcagca gaggaatggc acccaatcct gggcaaagga atgtgaaggt ttctggaaaa
87001 caggttttct tccccaattt tcaaagagag gtttcttccg gtccctgcct tcgttcgagg
87061 gagcacgtga tacttggcac tgcaaccaca gtcttgtgaa cctgtgggag cagcaccaag
87121 gaccacgaag aggctgcccc agggcccagg agtcactgaa tgactgagcc aatctggaat
87181 tgcttctctc tagggccctt ttagtcacat atcttgcttc ttgcagaaga aagcattaac
87241 aatgaattac agcatattta gtcggctatg cgttaatgac aacgtagacc caaatccccc
87301 tttcaaggcc cctcagggct tctcactgca ggtagaataa agcatgaggt cctgaacaat
87361 cagcccctcc acctctccaa gcttctcagg ccttgctcta tgttccccac gtagtctcct
87421 ccttcacttt cctgtgtgtt ctcactgtca aattctacct cagggccttt gcacacactg
87481 atgaactgaa tcctattcct tcctctgcac tgactttaaa agctgcttcc taggaatggc
87541 cttgttctct tactcaaact aaagcagatg cctggtgtta tttttctctg tcagttccct
87601 gctctttccc tcggaggccg tagccaactg tgtggggctc ccttaacatg cattccagtc
87661 tccttctcga aggcagggcc taagactcaa actgcctttc ccaggctcca ttgcagctgg
87721 gttctagaaa tggttgagat tctgcccatc agacatacct gtgggaggtg gtttagacat
87781 gctgctacat ggtgagagag agctggatag aggggttcat ctgactggcc ggggtcctgg
87841 cagaggatgt gagattctct ccttaacaag ggcaggagct ccctcggtgg cctagttctg
87901 caatagttgg gggcgatgat cttggaattt tggcctagag ttgtttcttt aggcctcttt
87961 agaatatgga gctagctgta ctcttaatgc acgcctgtct gcttaatttg tctatagtgt
88021 atcctgttgt ccataattac aaactttgac ccataaagca atagtcattg caatttgtaa
88081 ttatatattc atttcataca tttcctaaca ccctggtatc tctaactagc ctctgtgctc
88141 tgaacactta acatagggta cagtgtctgt agctcaatat ttattgatgg gtaaataagt
88201 agacaattga gcaaaaccag acattgcatg taaagttaga agaaaagaga aagtcctgaa
88261 gttgcatctt tgatatttaa atcttgagtg atttgaaaga agccagaagc tgacatttac
88321 aataagttcc caacttgctc aattcacctg gcaggctcat cgctgtgata gccaaactag
88381 aacagaggtc caggaatat gaattccaac tgttattaaa tgcaatagca atcttaaccg
88441 taggattttt gtttctcaag aaacataatt tgtcaggaga gatttctcag agcctttcct
88501 gttcctccta agagagtata tcccactctg agatgctctc tggtaccatg gaactctcca
88561 tcaaaggtgc agcctcacat tctctcctgg gcagttccct gattcgactg tcatgcccac
88621 ttgactgtca gatccatgag ggcaagagcg cacattgcac aatgcctagc acacaattaa
88681 cacttggtat atgttggctg aagaacaaat gggttgtact gcatgttatt taatcacaaa
```

FIGURE 1 (continued)

```
88741 ttttgaggaa tttcacacag gactaaaatt agtgttatat ttacactaat tattgagtca
88801 gatggctctt tttctggctt atttgtgtgt gcacatttta actgcatgtc ttacacatgt
88861 aaaaatattt tttttataca ggctgcagcc ttcttccatt gttgcaggct ctctcttcta
88921 ctgtgggact ttcccctctc gaatgctgaa aatagcaaaa aaagtgtgtc tctcattctc
88981 tttcccctca ctctttgcag ctaggcttat tccctgagcc ctctctctac ctgatgttct
89041 cgctaaatgc ttatactctc tgaggtcatc cattgtttga gttattcctg acagactctc
89101 accattataa gtattaaagg ggaggaagaa ggggctgagg agactgaagg gaaaaggga
89161 gaaacccctc atctcagaaa acccctccag aaagatcatc tctttaggaa acaaggcaaa
89221 actgcggttg gtatttctcc actgtggcca aatattttga ctcaaagtct gatgtagccc
89281 atgtttaatt ctgctctgtt tattgatgta tgtttcatga atgggaatag agtttgctgt
89341 tttactccaa tataatttat agtacatttc ttctgataca ttataggcat atatgactgg
89401 catattattt gtgcatataa ataatgtatt tcctcttctt ttttcttt ttttttttt
89461 ttccagagac agggtctcac tttgtcaccc aggctggagt gcagtggtgt gatcatagct
89521 cactgcagcc ttgacctcct gggctcaagc aatcctccag cctcagcctc ctgacagctg
89581 ggactataga cgtgcatgac catgcctggc tacttttaa attttttcta cagaaggggt
89641 ctcactatgt tgcccaggct tgtctggaac tcctgactgc aagcaatact cctgccttga
89701 actccccaag tgtgttggct cacgcctgga attacaggtg caagctacca cacctggccc
89761 tcttctcttt caattactcc ttcgatgctt ataactggca ccaatgtcca agatctttac
89821 tgactccagg agcccctatg agcacacaga tcattagact ctcagtttta ctccccaagt
89881 agttgggatg ccctagttct gaaatgctct tccttgcaac cggagttgag gaccctggta
89941 tcttctcatg tccttccttc tcacccatct tcttgaatac gactcccaa cacatggaca
90001 cacaagcatg tgcatataca cacacacaca ctcttcaccc atccataagg tccatgctcc
90061 ccagggattc gggaatctag agggtgctgt cagcagcctg tctggggcca taaagcataa
90121 ctgccaagct gcaggattga agacaaaatt ccgatgcaaa gataggagca cagatagggga
90181 catacaaagg cagatggcac catagcccag gagccctaga tccctggatc cctgggtatg
90241 tgtgagcaaa ggggaaggga gtggtaacgg agagggtgag aaactcatgc agctattttg
90301 tagtaccttc aactcaggac tcctcaacct cttaaaaacc agtttcatct taacttggtt
90361 taaccaagtt tgccttcagt aacagtaatt ttttatttaa aagtttatt atgtggtgag
90421 aatgtttaaa aacttactct tagaaatttt gcagtataca atacatcatt attaattatg
90481 gtcaccatgc tatgcaatag atccctaaca cttatttctc ctgtttacct gaaagagtaa
90541 attttgaata ttctcaccct aaaaaatttg taagtaggtg aggttaatta gcatgttaat
90601 tagctttaat ttttctacaa tgtatacata tatcaaaaca tcttattgta ccttgtaatt
90661 tatacaattc tttttttttt tttttttttt ttgaggtgga gtctcaccct gttgcagagg
90721 ctggaatgca gtggcacgat cttggctcac tgcaacctct gcctcctggg ttcaagcgat
90781 tctcctgcct cagcctccct agtagctggg attacagatg cctaccacca tgcccagcta
90841 ttttttttttg tattttagta gagacagggt ttcgccatgt tggccaggct tggtctctaa
90901 ctcctgaccc catgatcctc ccgcctcagc ctcgcagagt gctgggatta caggcgtgag
90961 ccaccacgcc tggcctgtaa tatatacaat tcttatttgt caattaaaaa taagagaata
91021 ttaaataaga attaaaacta gaaaaacatt ttattattgg cagtatttgg gtcatgcaaa
91081 agaatatatg taacatatct cagtattgtc acacaatgac aacacaaata cttgtgaggc
91141 aatgaagttc acatgtcaat gctgagcccc gtatctcaag tgcccctaac ttttcatagt
91201 cacatgacat tcctttaca gaacatacaa actttcatgc tagatattga aaagaagtct
91261 aaaaatgcag ctaccagggg gaatcaacaa gttggtatga atgagcttca ggcaaggcat
91321 aaatggtggc agccagttat gagagggttg gaaggggaaa ggttcttcag gcctggggga
91381 tgaggggcag ggaaggattc atacctccta aggaggagga agaaagggg gctagatatt
91441 aaaaaagaaa atgccccaag ttttataaga cttctcccac acgtgcaccc cactaactgt
91501 ctctattcag agacatataa aaattgtgga cagaagtact tcaaaatctg tttcgtcaca
91561 ggtgagaaag tacacagctt tgtagagact atttccaaga tggtaatatt tatatcggca
91621 atatttataa tttatggagt gcatattgag tgtcttatgc taaactctgg ggctataact
91681 cagaaaaatg agatttagag ctcaggcatg ctacagccca gaaggcagac agacaagaac
91741 ttagaaaatt ccaaaacagt ctcaaagggt gattctctta ctccagtttg atacacactt
91801 ccactgcatc ctagagcctc ttcagaatta agataaaaca tttcttggtg cagtaatttt
91861 tttttttttga ggtggagtct tgctctgtcg cccaagctgg agtgcagtgg tgtgatctca
91921 gttcactgtg acctccgcct cccaggttcg agtgttctcc tgcctcagcc tactgagtag
91981 ctgggataac aggcatgcac caccatgtca ggctaatatt tttgtatttt tagtcgagac
92041 agggtttcac catgttggcc aggctggtct caaactcctg acctcaagtg atctgcccac
92101 ctcagcctcc caaagtgctg gaattacagg cgtgagccac cacacctggc caagtgtagt
```

FIGURE 1 (continued)

```
92161 gatttatttta atgcctgtct tcgctgatgt tttgttagct ccaagagaca ggacttgtgt
92221 ccatcttgtg gactgccata cactggcacc ttactctggc tggcgcttaa taaataatca
92281 ttatataagt gagtgggtaa atgaatgaat gctagaaaag aggcaagcat ggcgtgctga
92341 gtggccagta accatcctgg gggtcagaga ggctttgggg aagaagtgat atttaagccg
92401 aaacctgaag gagaaatggt atttagccag gtaaagaaag agcaacgctt caaaagccca
92461 gaggcaagag ctcttggagc agcctgaggg tactggaaac gaaactgcat ggctgaagct
92521 tacagatgct gctctgtgca tgggctgttg tgcaaagtag aaacttctca tctcgaggtg
92581 aataaattgc agaaggggcgt cccctctcta ggccaaccaa tgagaaaaaa gagacttcct
92641 ctgggatgat tgagtctctc cgctgtgcac caggaggctg aggtcagcct ctatatgagc
92701 ctttgtcggg gagccctcct gtaggatgcc acctgcacag gcatgcccag aagccttggg
92761 aggagggagg agggtgccga gagctgagtt agatcttggt aagcaggagc tgactcaaaa
92821 acagctttta tggcactcta aggagtttga actttgctct atgggcagcg atgcactttt
92881 gaagaacttt aacctaacag tgactctctt acagaagttc gttcaacaga catttattgt
92941 gctcctgctt atgcaagagg cacaccagta catgcggttc tggggtacca catggtgagg
93001 aaaagagaca cggtacctgc cctggtggaa tttacgcttt actagtgaaa gaacgcatac
93061 tgggggacaa gtaagagaca gaacaccgtg agagcagctt gaactagagg gagaatctgt
93121 taaacaatcc tgcaaggtca acgtggtatt ctgtttttcca gataaggaaa ctgaaggtag
93181 ggaggtttaa gtaacttatc caagaccacg caagtgagct tcaaatgcac ttggtgtgat
93241 ttcaaatccc atatccttgt actacagaga taagaacaaa atgatgaata atatgttctt
93301 aaaaaaaacc tgaaacatga atatagaaaa gatgtatcat tacatttaca cacactcaca
93361 cacacacact cacacccaca catcccctttt atcttccttt ccactcaccc atgcacatat
93421 accctagtga aataaaaccc gacccacctt acttttcagg aaacacagtc tggaaaatat
93481 ttgtcaggac atggccaatg gcttagctgt aatccctata tgggcctatt caaactagtt
93541 aattctttcc tggggaaaac cattctgtaa ttgcagacct tgtctcttaa cttagcagag
93601 cctctgacag gtggatgcca tttacagggt cccagagctg tgaaaagcca gtctgactgt
93661 ctgtttttaga actcttaagt tcaggtaagc aattttgtaa attaatgtca gttatctctc
93721 tttttttttga agctggttgg ggtagaaact ccatgttcca aaattttgtc accctgacca
93781 ataaaatgcc ccctgctttc aaacacaatc agacctgctt taggggagga tcgtctgtgc
93841 tttgtttgag ccttgattaa aatggagatc agaaagactc acagatgtct cttctccaaa
93901 ctcaataaac cccaggtcct cttacttttc atcttacatt ttctctcttt ataaaagtat
93961 tcatttctct tctttgaatt atcttctttc aaataatttc cttcgttaga aaaaatgtag
94021 gtatatgcat tttgggaaac aagagctacc aatggtaatt acaattgatt tttattattc
94081 atgagattcc tattattatt attctcattg cagttatgtt ctacaggatc actacgaaca
94141 ctgaatgagt gaatactgaa ctacattgct cctaggagaa aaataggggtt aggttcctgc
94201 aaacctctgg tcaactggcc aatacataac cttgtttttat gtgtatttct gttgaaaaac
94261 accttatgta acatatatta ttgattcatt aacattgaac tcacatccag cggccatata
94321 actcatgcct gaatgaagct tatctaacgc atgtattttc tctgtaaggc acatcacagc
94381 cttctggcat ttagggacac caggcagcgc tgtgctcagg gccattttg aacagtgaaa
94441 ccaccaacaa aaagcataaa aatgtgaaga acgtggtaca aaattgatgg caaaaaggac
94501 acctgtttac aggataaggg ctgaaacgag aaggcctagt gtcaccttgt ttgacctcag
94561 gtaggaacgt gtgggttggt aactcgaatt tttcaccact ctgcatgtcc atgaatctct
94621 ctgaaagccc catgaatatt gattttgagg ttacaaataa acttaagcaa gcaggtgaat
94681 tggcaaatac ggaacttctg aataatgaga attgactgta tttgttcttc tctattaagt
94741 aacggggtct gttgcagatg gaagaaagaa agggtgaaag attttttggag actcaggaga
94801 ctttttttgaa aatgatttgc ccaaggcaca gaaccaaaac agtagttcat tggcctaagg
94861 tggagaaata taattccttg catctccagc aatctgtctg cagttctctc cctgtgaaaa
94921 atgacttgcc ataatataca agccttgtta ctatgtaagt gtaattatat tttaataaaa
94981 aatagattta taaccaaaca ataagccgtg agattaacag cccagaactg gctgtgaact
95041 ttcagccatc taaccctggc actcctgctt ctccgcagca cttactttct gccaggagtg
95101 ggtgattgaa caccactgac caggaagggc tcctgggagc cacatttttt gcttggcatt
95161 tttaattgta aaaaccagtg ttccaccaac actgcaattc aacgaatcaa aagtcaaatc
95221 catgcttaac aggaaaagat aaaagcatca acttaaggga atgaaacaaa tttgaaaagc
95281 aatggaaaag gaaactcata tggagtgaaa tccattcaag acacgtttta ttgttttttcc
95341 catatgcatt tgctgcccag ctttgactat aaacattat tttttttcttc tactaaaact
95401 aaatagtaat ttgacttcta gattcttcca gggtcgtgct ctgaacagaa gcaaaatgga
95461 aatatttcag tagcttttta gacaactatt tcaaaagcaa acacatggtt gtctgcagag
95521 ttgtaggtta aagctataaa tttatttttat taaacagaga ggaattggtg aaactgaaag
```

<div style="text-align: center;">

FIGURE 1 (continued)

</div>

```
95581 acactataac cctgacattt tcatgaaata atattcttgt ctgatttttt ttttagtttt
95641 tactcagata tcactcaagt tacacataaa tggtaatttt tctttataat aagcttccat
95701 ctcttgtata aatttaatgt gttcagtgat gactgtggat aaagtcacct aacggtgatt
95761 ttctaaggga ggtaaacttt attgtcataa tttcctggtt attacctagt aaaacaagtt
95821 tttaaaaaac caaaaaacaa tagacttaaa accataaaga ctttttttagc attcagatta
95881 aataaaagaa agggtaaaat gttgacattt tcctaagaga taccagttct tcacattttt
95941 atataatctc ttaatatgaa gcatataatg tgtatattat aattatatat tttatatttt
96001 attatataaa attataatat aatataataa agtgtttata tttataatat aatataataa
96061 agtgtatatt atattatatt tataatataa tataataaag tatatgttat aattttatat
96121 aataaaatat aaaacatata attataatat acactttata tggtaacacg atcatagtct
96181 ctaccaatac atatatctga ttagatcacc atatgggaag tctgttcata tttttagtta
96241 ttgggttttt ttttcaccaa gcaataaaat gtccagtatc aaataaataa gggtcatatg
96301 attcccagat gacatgacca gggtactcat aaaattcaga gaagctgagt cagatcattt
96361 caagaggaca aatgcagcgc tcccccaaat tcagtaactt gtggaatgta gcaatcttgt
96421 attttctctg agccaagcag cctgatgctg tcaaactcat ctttcatttc ctctgcctta
96481 ccgcagtgtt agtggtttcg ttattagaag gaaaaaaatg cataaatgtc ttagttaaga
96541 tgaaattgca tctattaaaa taaagttgat cctaaatgat tctttcactc aaagtattaa
96601 tagactaaag gaaaatgttg caaactatga attagtggta tagtttatga acggtagctg
96661 ttgtgattca tgcatatacc ttttggttac cttataatga aaggttgttg ggtacagcct
96721 tcacatcaat gagaaaatca acaaaatgtt cttgaaaaga cgactggcaa actttctttt
96781 attttttctgt tctcattagt agaaagaggg acaggtcact ttcagaagga ttaaaaggtc
96841 aaaaaatttg gtgaagggat gtctacacaa gcctttagaa agctgttatc agaggatcag
96901 ctagaaaaca atcttagagc taatcctttg gctggatcca agaaaaccc agcagattta
96961 agttttctct tttttctctt tgttttcctt tacaggggta tttcccacaa aagcctttca
97021 gttgccttca tccaaagtta taggtcctga gtcctttttca gctctttat tctgtctcca
97081 agcctagccc ttcctagctc tgtcctccta ccttttcctg atcttttcca ttttgcttgt
97141 tttcatcagg ggttcccccct aaatccctct tagcatcccc taaagcctaa atgttcatgg
97201 atggagaact tcttctgagg gaaaaacaag actgattcac agaattctag cattaaagag
97261 gactgtagaa attatctagt ctacccgcct tcttcctcca ccattttaca ggtaaacaga
97321 attcacgaaa ttgcccaagg tcatgtccag gtagcgactg caccaggacc aaagctctgt
97381 caataataac tgcaaattgg ttgcaaagtc ctttggacaa ttcaagctgc tctacctacc
97441 taaggcacta tgattattat tattataata cagatgttat tatacagagc cgaccgcatg
97501 ggcaagattg ctgctgatga tgtgtgtgat gccaactcac caagacccag tggcatcacg
97561 ctggcatgtt gaaaataaaa aggggtgaca tctgctttac atacagagcc tcatgacctg
97621 tactcatagc tggaggcatc agtcattgca ctacgagagg aagtgggctt tgaaatacct
97681 tggggttgat gtcccaagaa cacccttctt ccgctcctcc tccctgtact ccttgaactg
97741 ctgctcatgg gagcctgagt aatacagaaa ttggaggaca accacacagc acaagtgtag
97801 gtttgacagg agtttacata atgctgtagg aaaagaaacc aaataaaggc ttcagctttg
97861 ctgaggctct ccccatcccc ctcacatgcc aaatgctcct tgtgtggctc acactccttg
97921 gtcttcagtc agagaggcca ggagcccacc tatacatctg tatcagggtt aggaagttgg
97981 ctcttgttaa caatgttgaa tgcactttgc tattcactac ttttgtggtt agaaaagcct
98041 cctgatatca aactttagaa tcaagcacca ccttgtggtc tgatgcattt attaaactgg
98101 cacaatttga gagctgaaac tggaaatgct ccctcagctg gtagtagaga gccaggatct
98161 gaaaactgac tcccaggtgg ctgcctggaa gcaagaaccc ccaaggtgtc tttctgctgc
98221 ttctctgggt tctcagacca gttaacaatg acatccccctt tcatgggagtg aatcccatgt
98281 tcctgacact aacacattat gctagatatg tatagtaagt agccaactta atcctttcaa
98341 aaccacaggg aagtgtttct tattacttca acttttaagt gaggaaacgg aggcggaggt
98401 cacttagtgg tccagtcaca gacaaatggc tgggcttgga ttgacttgga agtcaagtct
98461 ttctgaagca aaagtctctg ctgttaaaca ctgctctgct gacctctaag gccaagacca
98521 agaccagggt ccacttcagg ctcttttggg gcattttggc tcttggctgc aaacccaacc
98581 agaactgcca gaatcctacc tggaactcac tcaaggtgct agaattaacc tgttctccaa
98641 ggttacattg atcaggaagg tttgcattca gagatgggga cttcattggt gtccatggac
98701 ctactgagat agccagagtt taggagaaag tttggctttt gaggatgggc cagacagcaa
98761 gtgaccagac tctagatcat tcatgaagaa acaaaaccag aaagagatat ttgacaaaca
98821 ttcacttgga caattacagt gcttcctgaa ctgaaattca gttattcttt aaaaggatga
98881 ttttatcata ttcattgttt gaagggagg attggagtat ctgcttggca agtgagtagt
98941 agtaatgtgg gccaagtcat gttagaaggg agatctcgcc cctggtcttg ttccagtgat
```

FIGURE 1 (continued)

```
 99001 accataagtg ttcttgggta agtcacttct ttgtctctgg gtctccattt tctcattcgt
 99061 agaatagggg ttggacttca ctaagaggta gatggttcta aagtacagcg caattgtatg
 99121 gaaaatgtga ggcaggaacc tcagctttct ccgtttcctt agaaagtctg tcctgctcag
 99181 gcttccttcc tattctccac tgaatctgct gctaattttg gtaacatggt gacttccaca
 99241 tagcaatgtt tactaacatg tctaaggaca atgattatcg ggaatatatg cttctctgtt
 99301 tttccaaagt agataaatcc atatagttca taactccctg actctccata caccaaaaag
 99361 aaatacaaaa agtaccatga aaagaggaag cactgccatg aacggtctcc ccttgaatgg
 99421 ctagtatgta atgccaagac agtgcctgtt catttcaaag cctctcccat tctagttcct
 99481 tcctgtgctc tcactccgaa tttcttactt gagatcgcta ttggttgagc cattctttta
 99541 acagataatc tgtactacag tagactctaa aacagagctg tccaacagaa ctttccgcaa
 99601 tgtagaaaat gttacttgtg ctctgcagtg gccataggtg actattgagc atttgaaatg
 99661 tggccagtaa gactggacca agtgtttact tttatttaat tttcattaat ttaaatttaa
 99721 atagccacaa gtgactggtg tctaccatat tggacagtgc agctctgcaa tattgccatc
 99781 acataggcct ttgttgcaga cattctgatt tctctgagac acaaagcgta catcataaca
 99841 gggctatcct gaatactggc tttacaagca gactttcaaa agattgtttc tccatgtttt
 99901 tcttgtatac aagatttcat aacaataatg gtatgtcagt cttttaaac tgtattctgt
 99961 ttgagataac tgaattgttt cttgacttat ttcaactgaa tagttgaaaa ggaatcccta
100021 tttgattcca tgggaataaa actgattcct tggttgcgaa taaaaagaaa agtattatct
100081 cactttgtag gtttttccat tcaataatag aataaatttg aatgtacatt ttctaatggc
100141 ttccagtgaa tgagtaattt tgatgccaaa caattttttt tttttagaa ggcatctcgt
100201 tctgtcaccc aggctggagt gcaacctcca tctctcaggt tccagtgatt ctcctgcctc
100261 agccttccca gtagctggga ctacaggcgt gtgccaccac actaggctat ttttttttgta
100321 ttttttagtag agatggggtt ttgccacgtt ggctgggctg tctcaaact cctgacctca
100381 ggtgatccac ctaccttggc ttcccaaagt gcagggatta caggcgtgag ccaccgtgcc
100441 tggccctgat gccaaacaat taataataaa agtagatttt cactttaaaa agggagcttt
100501 atatataaat tcattttttcc taaaatattt gatatggaag atgaaattag gaaaaaaact
100561 ggtaaaattc taagtgcttt attataaatc tcttatcctg agtaagctca agtgacagtc
100621 caagtatgtt tctaattaat taggccaata tttcttttt ttttttgtt aggaaacttt
100681 tacttcttaa cttctatcaa gtatatttct tttttttaat tattattatt ctttaggttc
100741 tagggtacat gtgcacaacg tgcaggtttg ttacatatgt atacatgtgc catgttggtg
100801 tgctgcaccc attaactcat catttacatt aggtatttct cctaatgcta tcccttcccc
100861 ctcccccac cccacatcag gtaccggtgt gtgatgttcc caccctgtg tccaagtgtt
100921 ctcattgttc aattccctcc tataagtgag aacatgcggt ggtgtttggt tttctgtcct
100981 tgctatagtt tgctcagaat gatggtttcc agcttcatcc atgtccctac aaaggacatg
101041 aactcatcct ttttatggct gcatagtatt ccatggtgta tatgtgccat attttcttaa
101101 tccagactat cattgatgga cattgggggtt ggttccaagt ctttgctatt gtgaataatg
101161 taattaggcc agtatttctt aactggaaca aagattgagt aacattatcc acgcttatct
101221 caaaataaaa cctttaacc tcaaagaata taaagaggtt ttcaggtcgg agatagtcct
101281 gagaaagtga tacctaggct ggaagagaag accaaaaagt cttacaaaat tgtaaactta
101341 caattttttt ataaatgtgg taaattttga taaatgcttg catgagaaaa catattgctg
101401 tgtttttagaa tttgtgaggg acatcagtaa gcaagagatt ctgactttgc tctggaatga
101461 gagagtggaa ctcctagtgt cttttcctcat aatctgctga acgactgagg ttttcatcct
101521 aggaccatat gatgacctgc tactccgggg ctgcctgtgc tttataatga tgctatacag
101581 acactgttgt cctatgggat ccgagctcca gttgaagaat gtttcatata cttctattct
101641 tggtgcagag aattgtctct actatagaaa gtgacttaac actcccaaac tgcatcgtct
101701 gagaatgggc atttctcatg tactcaaagg ttaatacatg gaaatcaatc tcaggcctta
101761 aaaaggaaa acccagcggg cgcggtggct cacgcctgta atcccaccac tttgggaggc
101821 cgaggtggga ggatcacttg aggtcaggag ttcaagacca acctggccaa tatggtgaaa
101881 ccctgtctct actaaaaaca caaaaaatat ttgtcaggcc tgtggcaggc atctgtcatc
101941 ccagctactc gggaggctga ggcaagagaa tcacttgaac ccgggaggca gaagttgcag
102001 tgagttgaga tggcgccact gcactccagc ctgggtgaca gggcaagact ctatctcaaa
102061 aaaaaaaaa aaaaaggga aacccaaaat gcagcagaaa accaatttaa gtccgtgctt
102121 ctatttcttt gtgatttggt tttcgtggga gtttgggctt gaggggatgt aggcgttcct
102181 ctgggtgtg atagcacatt tgtgccatga taaggccagt ccctgtccca gtggagtcat
102241 ttctcaagtc ctgcgtcatg gggaaagtga aggtctcccc tgcccactct actcccactc
102301 aagtggctgc agaagagggg gatattaggc accataggac aggaagagcc acagactcag
102361 tgacctctat gcaatgagga ggttggtcag agcgcatttg tcagagaacc agctgtgaaa
```

FIGURE 1 (continued)

```
102421  tgtatggagg  cggaggggaa  gcactttcca  aggttaacca  atccaaccct  tagactgcca
102481  gctgtcctcg  cttagaacca  cggctgatgc  agctgtggtt  gaagcatgga  catctagtta
102541  tcgtaggaag  agagatggag  aattcttccc  ttgcagtcaa  tttgtaagct  gatgcaagaa
102601  aaccaccatt  gtagccacaa  aatcaaaatc  aaagaggaaa  gtgaaagaat  aggacccagg
102661  caggctgtgc  aaccaagcat  ttcctttagc  tcctcttgac  caaaggcatc  ccaatttccc
102721  agtgaagatg  aattagaaat  tacatgagaa  ccatacggta  gattatttct  ggattggtgt
102781  ataaatatat  acagcactga  cgccaattgt  ttgaaaaact  gcatgtgtta  tatcagttgg
102841  gtgagtttag  ctcttctcaa  tggatctttt  agttattgga  ataaaattcc  aacttatagc
102901  aacttcttca  gtataaatta  ggcagacttt  cagcaagtcc  tgtgaatacc  cagttcctgg
102961  cacacagtgg  gcctcattac  aagttgactg  aagaacctca  gttctgggtt  ctgtgacaat
103021  tctgggccca  gagttgtcac  agggcaaatg  agataagcag  cattgcttgg  agaatgttgc
103081  ctcaatcatt  cgtgttcctt  tctggctgtg  atgtatatta  cactctccat  agtaattgtc
103141  tgtctccata  aacccattta  aaaatacaca  tgttaacata  ataggattgc  taattatact
103201  tggatgttct  tgttcctttt  tctgactcta  taataaagcc  tcaaaatgct  agctaggtca
103261  tggccaccta  aaagaaatta  cattttcttg  accgccttcc  agcagatacg  gccaagtgac
103321  tacactttgg  tcaatggata  taaacaaaag  aaatgtgtaa  ggctccagga  tctatctttt
103381  aggggtaggg  gtaggccctt  ctcctgcctc  ttttctcatc  cctacctgca  ataacttaaa
103441  tatgatggct  taagctagaa  gaaccatttt  ggaccataaa  gtaaaaatcc  tctgttgaaa
103501  atagagggaa  caggcctggt  gcagtgactc  gcacctctaa  tcccagcact  ttgggaggct
103561  gaggcaggag  aattgcttga  gcccaggagt  ttgagatcag  cttgggcaac  atagggagac
103621  ctggtctcta  caaaaaatac  aaaaattagc  tgggcatggt  ggtgtgtgcc  tgtggtccca
103681  gctattcagg  aggctaaggc  aggagaatca  cttgagccca  gaaggcagag  gttgtagtga
103741  tctgagattg  caacatggca  cttcagcctg  ggtgtctcaa  aaacagaaaa  caaaaaacaa
103801  aaacagaaaa  ggaaaaagaa  agaaaataga  atagcatgat  aaaaggagtg  taggttgagt
103861  gagagagagg  atttggtgga  acagaggtta  taaagtaaaa  taaaagcaaa  ggtattatgg
103921  ataaaatcca  tgttcagaca  tcatcattct  gattgcttat  aggcagaatt  ggtagaattc
103981  aggtaggcca  gatgccatga  aattttgtat  tgacaaagag  accagcagtc  tagactgcaa
104041  aagcctttga  ccattcaata  cctaaggtga  ccacctttcc  cagacagcca  gcaggaaggc
104101  tgtgaaagct  gtgaaggctt  taagaaaggc  gcgcacttgg  gagtattatg  agctgggaaa
104161  catttcctaa  agggagagaa  aacccacagg  cggcagtgaa  tgaagaagtt  ttgcccagtg
104221  agcaggtgag  agtccagctg  actctcatga  ttttgttttc  tctttctgcc  cagtgggatc
104281  tgataatatt  tagagataag  gaactattat  gtgattctca  gttttaatt  tttctgagtg
104341  ggagaaatgt  ttgtttatat  aaagtttgtc  ctgttcttat  tggacttgta  ggtgtgttgt
104401  attaggtaac  ttacatttct  attttgtagg  gcccctgaaa  atgagtagtt  acactcagac
104461  ctgataaaga  gcatggaata  gtacctgaaa  atcctggact  tagaaccaga  tgcatgaatt
104521  tggtggaact  ctgggattct  ttatctggga  gtacaggggt  tgagtacatt  tcaaacatgg
104581  aaataagggt  acactgagat  acatgggtgg  ccaaagggga  gacatagctg  tctttcaata
104641  tctattatcc  cttaggttct  gtgaacctga  aagaaccaag  gactataaag  agcagtggtg
104701  tacaactccc  aggaattgtc  tttaatggga  gatcatgtgg  ctttatcttg  tctctttttt
104761  gcatcctgct  gcctggaaca  cagatgtgat  ggctggtgtt  gatcctgctg  tgtgctgagg
104821  gagatggaac  atcaaggtag  aaagcactgg  accttctaag  catggtggag  ccattatgcc
104881  agccctggat  catttacatt  cagatgagtg  tgcaaatttt  tattcccttaa  agccactta
104941  gattttgaat  tttcagtcac  tctcagctga  acccaatcct  tactgctctt  ggaagacatt
105001  tacactgtgg  gaaccttagg  atgcactttt  ttttcttttc  tttctttctt  tctttttttt
105061  tttttattg  agatggagtc  tcactctgtc  actcaggctg  gagtacagtg  gtgtgatctt
105121  ggctcaccgc  aacctctgcc  tcctgggttc  aagcgattct  cctgcctcag  cctcctgagt
105181  agctgttatt  acaggtgtgc  accccacacc  cggctaattt  ttgtattttt  agtagagacc
105241  gggttttggt  ttctccatgt  tggccaggct  ggtcttgaac  tcctgacctc  aggtgatctg
105301  cccgcctcag  cctcccaaag  tgctgggaag  gacacacttt  tataagcagg  catctttgga
105361  gatcttggtg  ggagagatgg  ctcaaggaga  ggaaaagagg  gaggtattag  tacaactggg
105421  ttttatagg  cccagcacta  gcttcataaa  agttatttgc  aaaaaaagta  cgggtctgtg
105481  ttttgtctg  atgaggtggc  ccattgctct  atggtaagtg  gaatacataa  ttgctcacct
105541  ttgcttttgg  aaattaaatg  tatttagaat  tgaaaccagc  ttatggtttt  cttctcttac
105601  tcatgttcat  agaagatgat  cctatgagta  acactttttt  tggagactca  atcattgttt
105661  ccagtctctt  gcattctcta  gtaggtggtt  tatcttcagt  aacttttgca  aattgcatca
105721  acatacttgc  ctcctacaaa  tttaaactca  ataaaccaag  gagaacaagg  gtgtgatggt
105781  gggaatttct  tttgaaagag  tcaagcccat  gctgtgcagg  ctgcacccat  ctttactgca
```

FIGURE 1 (continued)

```
105841 ttcccataaa aggcttgggg gaaggaagtt aaaccataac cccgttaggt aataggctat
105901 gcattaatgc aatttatctg gaatgaggaa ggaagagatt cagctttgaa agaatttcct
105961 caacagcata ttcctctttg ctgcaaagct gtttcacttc aggtgagacc caggaagcag
106021 cctgggaatt ccttgaccat cgataccaaa ggctttctgg aggtgtgcag tctctaggga
106081 tttgagggtg tcgcccaaca gtcagtgtga ttttacaacc agttctctct aggctaattt
106141 ctaacgcagg gaatgagaat ggtcatgctg aaaagtggta gagagatttg actcgcctga
106201 ttgcaaggac caggtctacc acccagtaat tgtgtggact agaaggtggt ggagtgagta
106261 gtgacctctg aagagtgtga cctctcaagc caactgcttg agctccaatt ctgcctctgc
106321 tactttgtga ctgtgtagcc ctgggaaagt tattttacct ctctgtgcct cagtcatttc
106381 ctctataaaa taggtctcta tatggaccta ccttataagg ttgctgtgag tggcacatgc
106441 aaatgtgttt ataaagtata tcccatggta tgtggcgtaa tttattttt gaggggagat
106501 agtgaggtgc tagttacaca ctgggatgag gtagatcctt gtttggatct cagccttgct
106561 gctccctggg taggtggctt tggatcgctg ctcaccttgc caggtccctc tggctcctcc
106621 ttggctgaac atgctttgac tacactgacc tttctgtttc tccagccctc ctcatggcct
106681 gtatataata tttcttccag ttggaatgct ctctattaac cattatgatt ctcatgaagg
106741 ctgtttctgt tctccaggct gggttcaggt ctctgtgata tcactcaagg agttttgtac
106801 ctaccctcct gagcacttag aattatgcta gagtattcat ttgtataatt acagttgact
106861 cttaggcagc tccagggatg ggggcaccaa ctctccttgc agtcaaaaat ccacagataa
106921 cttttgattc cccaaaaact taactagtaa taacccgctg ttgaccagaa accttagtga
106981 taacataaac agccaattaa cacccatttt gtatgttata tgtattatat actgtattct
107041 tatgataaag taagttaaga aaagaaaatg ttatttaaaa aatcataaag aagagaaaat
107101 atatttgcta ttcagtaagt ggaagtggat catcttaaag ggcttcatcc gtgatgtcct
107161 cacattgagt aaagaggagg aggaggagga gaggaggagg aggaggagga gaggaggagg
107221 aggaggggct ggtcttgatg tctcagggc ggcagaggtg gaagaggtgg aggaggtggg
107281 agggaggcag gagaggcagg cacactgggg gtaactatta ttaatgaaaa tccttgtgca
107341 agtggatctg cacagttcaa cccatgttat tcaagggtca actgtattcc tatctgtact
107401 caggactgtg agttccaagc atggttaaca agtcctgtgt ctttcaaccc aatgtctata
107461 ctggtgcctg gctcagaggg gacaaaacaa atacatgaat gctgaattaa tacatacata
107521 cataaaatga atgtgagaag aatttccttt tctgatggtt ttataaacta tgagctactt
107581 gaaggcagat tacatttcat ctatagttat atccccaaaa gcctatagtt agcaagaaat
107641 taatgtattt gtcatgtgga tgagtaaact gtaccatagt gattcgaatt taattcacta
107701 acatataaca ttctgatttg aaaataaata aaattacttt agaaaagctt atgttggata
107761 taacctaatt tatacaaata ttcttttttt atttgtcaat tgagaaagta tttagttact
107821 cgtgatggaa actttctctt ttttatatt agagatgtta tctcactgca gactataagt
107881 taagacttgt agcacagcca ttctgataga ttttgttctc agaattcatt tatcctctaa
107941 aaagtattga ggatcccagg aagctttcat ttgtgtgggt tacatttact atatcaaaga
108001 atatatttac tatatcaaag aaatatttta aaaacattta aaatatttat ttgtttaaag
108061 caataataaa ctcaatacaa attaaataaa ttaactaatt ttaataaaat taattatatt
108121 ttcctatgga tcttttgccc atgcatgatt ttgccaggta atgcatcaat catttggaaa
108181 atattaattc attgagtgaa tatttgacct ttcaaatgtt ggctatacaa tattttgaaa
108241 aatcacattt gttactatca ctgatctcat tagaaaagtc tttgaggcat tgggaagctg
108301 tctggtttac acaagcaggt acaagtttac caaaattcaa agttttgctt gaaggttcaa
108361 atgttatttt cagcaacgaa taatgtttgt tattttcctt gaagtgacag gctctctatt
108421 tagtctcaag aaaaagtttg tcaaatagcc aaggctgaat aacaatagtt tgcagtcagt
108481 tgtcttttag ggaaaaaatg cttccatgca aaaataggct atttcagcct acaactcata
108541 gcaagtgtgt aagtattaga gtatactgta agtgcttcat gctcacaatt actacaaatg
108601 tcaacatggt aaagaaggca aataacgtct taatattatt taaaaaatag ttttgatctt
108661 atgctcctgc aaaaggatct tagagaagcc caggggtcca cagaccacac tttgagagcc
108721 gctgctctag ggtattctaa cattaaatta caagactcat tgaccccaca cagatgaaat
108781 ttacaacaat atggctttta attaatcaac ttttcctgca acttctaccc tatcaggaac
108841 aaataagcca agagcaaaat gttacaaaag attgtgataa ctgagtttaa gatcaatgta
108901 cgagaactgt cttatcaata tcacccataa ttattagtgt aaagaagtca caaaatgtct
108961 tttaaaaaat tctaccctga aaatatttca gaatgtaaga agtggcaata attataataa
109021 gtggctacaa actccacttt gaatgcattt tcagcagctt ttttcctaaa catttatcac
109081 gtattatttt attttaacat gtctctgtga tatgggtaca taggacttga tatcatctct
109141 gttttagaga tgaggaaact gagaaaaaaa tgactagatt cacccaccat tgcctaggaa
109201 actggcggtg gaactgggta gctctcctga tgaatatttc aatgcctttt cttttttcacc
```

FIGURE 1 (continued)

```
109261 ctgtggaatc acttggccag ccagactcag caaacacgtt tcatgtcaat aaaaagagaa
109321 tattccaatg agcccagtga ctttggaaat ccctaaagtg gagtgttcca agtaactgaa
109381 aacctggggg gaaagagtga cctctgtgag cttttccagc ttccacttct gctgatgggt
109441 ggaagttcat aggaaggaag acattctctt agcctgggct atgtcccttg ctaaatttag
109501 gattccagat tatagaaaca ccctcagatg accaagccct ccacccctga tgttctggga
109561 gctctcattc tgaaagaaca aatgcatttt tccttcccct ttggaaccag atagtaaact
109621 tggccaagga gcctgccagc cactggcctg gtgtgagtga gtggggtgat tatttggaga
109681 tttaggcaga aagtgttgaa gggaaagagg ctgtgggtgg ggagggacaa tcagctaaag
109741 agatgggaag tatcatcctc ttgtcttgtt aaagcagaaa actgtttaaa atgtcatgcc
109801 catatttact agctgtttat aggtaacaga atctcctctg tgtgtcgtca gtgagtaatt
109861 gccataacaa tgttgtattt acatgaccca tattttaccc cacaaaggca gagaagatcc
109921 ttaaagaaat tgcatatacc tctatggtgt gtagagaaga acagctgctt tcctccctct
109981 tcctactcat atggctcttg aaaatgctct cagcctcttc ctttaataat ttccatcatg
110041 tcctcctctg cccctttagat tgtagcacac gatttaaatg gaaggtgcag ggaagtgttt
110101 ctgagtggtt tgcctgactc aagccacctg gtgggcaagg ggcagcatct gagaggcttc
110161 cttccacagc ccgcctctta gggcccaaga gataacaaga ccacatgcag ctcagatgca
110221 atcacttctt aacatagctc agaggcaatc acttcttaac atttgagaaa acttgcctgg
110281 gtgaaaaacc attttcccag acagcaattt gcctaggagt tgcaatgaca ttgtctttct
110341 gtgccaagaa tatcaatcag ttcaaaagtc cctctcctga gagccactgg caagatcctg
110401 ggcgtgcaca cacaagcagt atctgtaacc ctgctgcttg gggttagtgt aaatgtcaag
110461 gctgtgtatt agaattaatt gttctgccac tatctgctct tcctttctct tttcctcctt
110521 ttgtataatc gtttgccttt ttttttctcc ctcgatcttg ttgtttctag ctttattgtt
110581 ctcagtttag acttgtgagc ctttgggatg aaaagtgatg taaactcttg gagaggaaag
110641 aaccctggat cataggccag aaggcctaag tcccagtaac actctcatcc gttagtccag
110701 tcacatcact aacctatctc cacctcagtt ttccatctca aactggagat aataatctgt
110761 atattgattg cttttttgaga cccttgtaag aatcaattgt tattatgtag cactattgaa
110821 catatgtact tactttcatt acagtaccta gaacaccagc tagtgcatag aaggtgccca
110881 ataaacattt gttgaattga tgactatatt tggaaatatt ttgtaaacta tgaaatcact
110941 acacacatgt ttttatgaca tttttcatag atgatgctac tagcctgcag tgctctaggc
111001 cttgggttgt gtcttgtcat gtcggctgtg taaacaggct ggctcctgcc atgccacagg
111061 tggctgggga tctctttcca ggccacagca tctacttggt ttctgtgatt ccaattcctg
111121 tgtggatctg acccactaac tagaagtttg cgctaagtga accttggtgt gtaaatgttg
111181 gtgctggagg gtgaatgtgg gtaccttgaa gccctggtct tataaatgag taacatgttt
111241 ctgtataaca tggaatgata cagatgatgg cattgagaat cctgctggtc tcggaaattt
111301 caagggagtt ctagaccaga tcaaacaaga gacaatggaa gataccagta tttggcaaag
111361 gaaagacatt tagaatttag aagtattcta aaggatgatt tctttttttt tttctttctt
111421 tctttttttt tttttttttt tttggagaca gtctcactcc ttcacccagg ctggagtgca
111481 gtggcgtgat ctcagctcac tgcaaactct gtctcctggg ttcaagcgat tctcatgcct
111541 caatctccta agtagctggg attacagaca tgcgccacca cgccgggcta attttttgtat
111601 ttttagtaga tatgggattt caccatgttg gccacgctgg tctcaatctc ctgacctcag
111661 gtgatccacc tgcttttgcc tcccaaagtg ctgggattac aggtgtcagc aaccacacgc
111721 agctctaatg gatgatttct atttacatcc ttcttataga ctgagacaga tcccctaaa
111781 attcatgtgt tgggacccta gcctctgtat ttggagacag agtctgtgag gagatgttaa
111841 aggataaata aagtcataag gttagggtct taatccaatg aggctggtgt ccttataaga
111901 agaaaggag atactagatc tctctttctc cctccactct tgtcttctgc tccacaaagg
111961 aaatatcaat ggatattcct cacaagtcta aactgagaac agtaaagcta gaaacaacaa
112021 gatcgaggga agaaaaggc aaaagattat acaaaaggag gaaaagagat aggaaaagca
112081 tagtggcaga acaattaatt ctaatacaca gccttgacat ggagcaagaa ggaggctgtc
112141 tgcaagccat gaagagagag ctcttaccag gaactgaatc ggccaccttg gtctgaaact
112201 tctagcttct agcttccaga actgtgtgaa aataaatgtc tgtgccttaa gctacccagc
112261 ctatggtatt tattatggca ggccaagctg actaatacaa ccctcacctc ctctgtctca
112321 tttctgggta gctatcctga aattcatgat tctgacattc tcctatatgc aaagaacatt
112381 gaagtctatg agcagactga atgtatatgt ctaaatatcc ttgtgaacta agcatgatgg
112441 aagagaggag acaagaatag ccacactcca ctgaatgaca agtcaaagat tgcaatgagc
112501 aactctttta cctggcttgc ctgagataat tttgatacat tacactaagc ttcaggagag
112561 tgaaagggtg taggttatgt caattagctt gtggactttt tgcaaaccat gtgattaagg
112621 ctggtgacat tctgcatcag gtttttaacaa aacaaggttt ctaaagttag tttggataca
```

FIGURE 1 (continued)

```
112681 ttgatttttc ttacaccacc actgttgcta gttgggtata ttaagtgata ttatagcata
112741 cgtgcaaagg gaaatgatta tttgggacag tgaaaaaaac tgtatattca atgtgatgat
112801 agaacaagtg tgaaggctga gtttggcaat tttgggtttg atcctcaacc tctaattttt
112861 gcaagtttgg agccatgatc ttctaattat ttagcacaaa tgttgaagaa gttagacaca
112921 aatgagtcaa agttaatcta tcacattcat ttttaaactt tagtgtttct atgaatcatc
112981 tgaagagctt gttaagagcc agtgagtttt cgggtgagcc tcagattttg tatttctaac
113041 aagtttcagc tcatatcaat gctgctggtc catgaactgt acttggagta gcaaggatct
113101 agaatactgt gtgtcagatg gaaagatgag acatttagtt tttctccatg aataaaatac
113161 gtgagattca actgttgctt tgttttgcaa tactatggga ttcctctcta aaaattgttc
113221 aaaatctcat gctttgaaga actacattat atggattgta aaatgactta agcaggaagt
113281 acttgacatg aatatgtgct taataaatat tgattggttg atttctgaaa agtagatctt
113341 cagagatgta aggcaaatgt cttccagtaa tataaaatga tacatcccta cttaggggat
113401 ctaggatgct atgcattgag acaagacaaa gtttatggtg tcagagccag agagaaagca
113461 agggtgatct gagcccagca acacagctcc attgtaaata gctgctcacc tggggcaaac
113521 aagtgctata ggatatgata aggaaggttc atttcatcat tttatggctg tgtacatcct
113581 ggagtgaagg aaaggcatta acgagtttgg taagagctgg caaagccaga gtccttattt
113641 gcaaggcatg gtaagcctat gggtgtgtta tcatttactt cattgtgatt tacgacagtc
113701 ctactgctga ttatacctct ctgaccccct cagggttggt tggaagttgt ttagatccta
113761 ccttttttctc tccagacacc agagactgcc agaaccacgc tcacctgtga gtgaaacaag
113821 caaattccct ggcatcaagg ggaagttaaa acttctattt gaaacaactt tttgaacact
113881 tttggcatat gtggaaatgt acatatacac acacgcatat gtatgtggat tatgtaaggg
113941 gttataataa agtaaaatta agattcaaga gcatttttga ctttaagaaa aatattcctg
114001 acccatgcac tcttatgtaa cctgatccct cagaagcata caagataaat caaatttaca
114061 gagttacaaa aaagtgttca ctgactgctg gaaaatatat gatgtcatat ttgtggttaa
114121 tggcctaagt tagattaaaa agatgcactt ttttgtattt tgatgatttg tcctttgttt
114181 tttctgtttt agttagactt gaccatggaa ttgatactct gtcaataaat tctttatctt
114241 tcactgttgc cactggtaag aatagctaaa ggttttgcag gataattgcc ttgaagaagg
114301 tatcttcaga atccatttat ttcaattatt tgccaatatt attcaaaatt tcttgtcttc
114361 ttatcactat caatgagtag aaattttcag gattgctaag agtttgttat gctttgtggg
114421 agaaattctg tgtaagattg agttttgaaa aaattccatg ttgcataatc tggggaaatg
114481 cctgttcatg cctatatctg agcaaacttt gtaacttgtt tataaaggaa aaaagatttg
114541 aaatttaaaa tttggcaatt aggagcacat taactctcct tgtctacaat ttttatcgca
114601 ccataaaaat acacttttaa gaaaaaaaat agcattcctt ttaaaggttt ctttcaaaag
114661 atatcccttt aggagatggg agttaaataa caaaatcaat tactctcttt gttgggtaag
114721 tcaaggactc cctaagccca aattttgagt gcctcttggc atctttgtat ataacaactg
114781 gaggttatcc acacattaat tgcctctaat actattcaaa tgcataatca aatccaacaa
114841 gtcatttctg cttaactgat gcaacacaga tgatgccatg cttcctgaga ctgaaaggtt
114901 tgctaaggaa attgcctcta aaattatggc aagtataaaa taaaggacta ttagaggaga
114961 taccacctta gctgctgtac ctagggatac tgataaagga tatatcacaa cactcattca
115021 taactgaaag gatattaaaa tccaaataaa gcaaaagacc aaagataact taagccatac
115081 cccaaaaagc taattaacta ataagttatt ttactgttta acagaatgaa gagattaatg
115141 gtagacaact ctttagctgg aatattggaa agacttacac aatgaaagca ataagtgaca
115201 tagatcttgc taaaaatcaa taaagcaagt aaagccagtt ggcacactat ttaacgtgaa
115261 tcaatgtgaa tgatatctca tcaaacttga ggtgtcattc aagaaggaat acttgctatt
115321 tctgtctcct aaatttccaa gaagacatta caagtgtcta aaatgagcac actcttaggt
115381 gaccctgata gaagtgcatt ttatatttac ttgtgaaacg tgccccaaaa gttaaagaaa
115441 ccaataactc atataaattc ttgggtttgc aggatgtcag attaaaaaca agaaacagct
115501 tcctgaaaca ctaaaactcc ctccacttgt aagacaacaa aactggctga aatcttttcg
115561 aaccgatacg gccagctgga gtttgcacag aacaagcttg ctgatgtcac agcctggatt
115621 tccactgcac gtttttatatt aactcctccc caaatttgca catggacct ataaggaagc
115681 acaaagggat gactgtgcgt gcctgagggt ctttcagacc tctcctttcc tcccaccaat
115741 tacctgctaa tctcagaatc caccctctta aaccttttct agtaaaagta ttgccttaaa
115801 accagcacag agagatggat ctgagcttga ctcatatctc cttgtaagtc aacttgcaat
115861 aaatagcttt tctttctcaa aaacttggtg ttatattatt ggattctaga acattgggca
115921 gcaagttcct tttgcttgat agcacttttg tataaatgtg tatgtgtaag gatgtaatta
115981 acagcatcct tttaggtttc tgcatttata ttaggccaaa tcgatatacc ttttagatat
116041 tgctggactt ggattcaatt tgctttgttc tccatttcat ttactaaaat ctgggtctaa
```

FIGURE 1 (continued)

```
116101  tgtaagagtt  cttggtatat  tacataaaca  taaatcattg  ctgctgaagt  tctaatagga
116161  ctctgttgct  acttgcagaa  accagctttg  aggtagtcaa  ggaaagagga  taaagaaaag
116221  aacaaaactg  aggtttttaat ttcatacatg  atttgtgtct  ttgacagtgc  ttttgtttca
116281  tacaaaacac  aaacgaaata  aaaatttagg  ttccatttct  gtcccttgcc  atgttaactg
116341  tccaatataa  aaagaattga  gcattatgaa  gtagggttct  gcagcttgct  agataataaa
116401  catattgaaa  gaagggttca  atttgggttg  gatgccaata  gtggtgaagc  atcctgcatg
116461  ttcacgttgg  ctctccagaa  ctttcaggac  ttgataattc  tgcaggaacg  caaggtgggg
116521  gcctgacttc  tcttaagcca  caccaatgcc  agttaaattt  gggattgaca  gaaaagtaga
116581  gaaagaatag  ttaagtttgc  atgaacttca  tttatgtctt  ttttttcatg  tgtgtattca
116641  tgcagtgttc  actccctact  cactataagc  cacgtgctct  gcaagatact  agatatacaa
116701  agatgaataa  atttgtcctt  gaggaacaag  taattataaa  gttagaagat  aaagataaaa
116761  atatccaacc  tgtattgaaa  aagaagaaaa  agaagaagag  gaagaggaga  ggtagaggaa
116821  atcacctatg  aagaaactga  aatccaacta  acctcagagg  agttctttaa  aactctacat
116881  gccaaagaca  atgaagcaac  taacagaatt  ataggggaaa  agtttgtgac  caaactataa
116941  tctatgttta  ttctttgtgg  cgaggaccat  aaaatataac  cccacacact  caaaggaaaa
117001  aatgcttgaa  cacattctat  agcctgccaa  gattttcata  aaatgaagag  cttaaattga
117061  gttagaaaca  gactcccaat  gagcaatgaa  attagcaatt  tgaaagatgc  atgcaactgt
117121  caaaaaaggg  agagagaaga  tacataatga  aaaaataatc  actttttcag  taatatttat
117181  cagacccct  cctatatgct  agacagcatt  ctagtcaatg  agattacaac  agtaaattaa
117241  acagacaaaa  attaagcaga  atgcaaagtc  tgcctttata  aagcctatat  tctacaggag
117301  aatcagaaaa  taaacaagat  acaaaaaatg  catagtatga  aatcacataa  tacctcaagt
117361  cttaatagca  aaaactagca  tatggatata  aaaggataga  aaaagtgagt  gaaaaaggga
117421  taaatatttt  agcttatgta  gaagaggaag  aaaagacttt  aatttccagg  aatttacaca
117481  cacatgtgca  cacacaaaat  gtagggtaga  aaaattattg  cttagacaaa  atagaagtca
117541  aagggaacag  cattaaatag  gacaaaaaga  ataactcata  ctactactac  taataataaa
117601  agtcaacaca  ttcaaagtcc  atcttcttat  tcttcatctg  actcagtttc  tgctcttgcc
117661  tctctaagtg  agggtattgt  cctactgccc  ccaaagccag  gccaaaaacc  tgggcatcat
117721  tctttactcc  tctgtccctg  cgcacaccca  atctaccgcc  cgtgacgttt  tgttttttcta
117781  cctcctaaat  acatctcaat  ccatctcctt  ccctttgtgc  tttctgacat  tttgctcatt
117841  tagaacacca  tcatctctta  cctggccttc  tacctcaacc  ctctaactgg  ttcccttgcc
117901  tcctgcttgt  tttcatcaaa  tctactatcc  atggggagct  ccaaactatc  tttcagtcta
117961  cccatctgat  tataacatta  ttctgtgtaa  aacacctttg  gcatcccatt  gtccagaact
118021  ccttaatgtc  accctctgta  gtttaactgt  tgattatctc  tccaggctgg  tatctcattt
118081  gttgcttttt  atatccagcc  acgtgagcat  ttgcaattcc  caaatactgg  gtcagccgct
118141  ttctcacctt  gagggtgttt  ccctctgcct  ggtacccgct  cttcttccgt  ctcccttttgc
118201  ctggccaatt  cctattgagt  ttagacacca  cttctccttg  taaacctttc  ctcactctcc
118261  actctgccaa  atctggtcga  gttcctattc  tgagtgttcc  aatagaacct  tgaacttccc
118321  ctatcatagt  acctttccac  ttgattataa  cagcctgttg  atatgtctgg  agtccacacc
118381  agattgtaaa  ccccataaag  ctgtggacca  tatccccagg  acaaagatct  atccagaagg
118441  ggttttaata  ttaaatgaga  aatattattt  aaaaagaagt  aagaatgcaa  cctaagaatt
118501  tggaaaagag  aaaaataagc  caaaagaaat  catcagaagg  atttgaccaa  gattaaaaga
118561  aaataaatca  gaaagtagaa  aaattgtatt  tctttgaaag  aaaacatgca  cataataaag
118621  tgcataaatc  tgtagcattt  tatatataat  caagagaagt  tgtatgcact  caattgaaaa
118681  atttatgaga  aatttatgag  aaaggacaac  agatatcaag  gatattacaa  attatgctta
118741  tgatttagaa  taattttaa   aatggcaaat  ttcctatcta  aacataaatg  atcaaaattg
118801  tcttaataat  taagaaatct  gaaatctcca  gtaactcaga  aagaatttga  aaaagtactc
118861  aataattact  tcaaaaaatg  gatactaacc  tgggcaactt  tacagctttc  acattttcaa
118921  gaagcaggta  atttctttca  gataaattgt  tccgtgggat  aaaacaagat  gaaagaaatt
118981  atcaaattca  ttttatgaag  atgaaatgat  tctgtttcaa  aaagccaaat  aaataacaaa
119041  cacaaaactc  ttgaattgaa  tagtaatctt  atttttgaat  acaactgcag  aaatccttaa
119101  aagaattaca  atttcaaaac  aatagcacct  tcataaatta  tccaccacat  ccaagtaggg
119161  ttattcctgg  aattcaagaa  tagctcaatc  agagagaaat  aggttagcat  actacatcaa
119221  tggatctaaa  aagaaaaaaa  ttataaagct  cataaagtca  tttcaatgcc  atttggaata
119281  acaattctta  gaaaacttaa  acacaaatgg  catttattca  aattgtcagt  gatatctgat
119341  ggctaaagag  tagaggtact  ctctctcatt  aaaagcagga  acaagaccag  gaagtctaat
119401  atcaccatga  ctatttataa  gaatgctctg  aacatcagtt  tgtgcttgta  tttgaccaaa
119461  gtctgccaat  gtgtttttgc  tttgattttg  ctgtggaag   tctgaagaga  caaatgtctg
```

FIGURE 1 (continued)

```
119521 cttcaactgg ctttctagcg tccctgagat agttcctagt caaggatcat gtgactattt
119581 aggttaccat cacatgtaat cattaatgat tgggagttcc aatattaact gacagaccaa
119641 tagtctaagc cctataacat cttcattttt ataggtcaaa acaattgaat atcagctatt
119701 tcttatgact tagtctaaaa caaatattga gagagagtgt gtttgctaaa taactttaaa
119761 gaggacagta aatctctcta aagatatgtt ggaatgtctc acaaataagc caggttgtta
119821 caaggtacac aataaagagg gatctgcttc tagtttcaac ttttcttatt catcctggat
119881 aaggtgctta ggaaccactg taacccactg taactcctct aaaaagctgg cacaggaaac
119941 aagacggctt ggccagtgca gtagctcacg cttgtaatcc cagcattttg agagcccaag
120001 gcaggaggat cattttagct caggagtttg agaccagctt aggcaacaaa gcgagagtcc
120061 catctctaca gaaaaataaa ataaataaa  tagccagaca tggtggtgca cgtctacagt
120121 cccagctact tgggaggctg aggcgggagg attgcttgag cccaggaggc cgaggctaca
120181 gtgagctatg attgcaccac tgcgctccag cgtgggcaac agagtgagat cttgtcaaac
120241 aaaacaaaac cgcaaaacaa acaaaagacc ccccgcccccc taaaacccaa aaaagaccat
120301 taggcacctg aactcaaaat gtttaaaatg tttttcctca cctgcccacc tctaccctcc
120361 acagtgagcc atcaacctaa taacaagaga gagcaacaag gcctggggtc cctttgctgg
120421 agcacagtcc caaggtgcat ccgtctgtga cccaggtaag catgtgtctt cccaagaggc
120481 caaaagcatg gaaaccaaac tgcagacttt ctccctatga gctcccgcat gcaccaagtg
120541 atgctggctg aggttttctt gggtctgtga cacaacaata tccattttga accatccaag
120601 gtttataaaa aacattaata acaatataat agaaggatag aattagattg tatagtagta
120661 gtaatctttg tagaattgtt tgcatactag tactcattgt caaataaaat aatcattaag
120721 aaccatattt aatttgcagt taatgaactt tacttaagct gtgactattt caggagtaat
120781 ggtcctgctt ggaaattctt cacattctgt acagacgtat taaaggcaga atagcacatt
120841 atcacctcaa attttcatga ggaggtaaaa ctaaaatcat gtacaacaat ctcaatgaca
120901 tatcgatata atgaagagta tgaaaaagag taagagaaaa atgaggaacc aaaaacacat
120961 ttgatgttgc taatctaatt tcaaatagc  agacttaaca aacttactct aagaaaataa
121021 tcctatatat ctgagtctcc aaggccagat atatttaaaa gcctgttgaa atgatttatg
121081 caaactgaca attgaagcag ttgaagatga aggagtattc agattttcac agtctgtgat
121141 gcctaggtac aaatctcttc tttgtatgca ttttactaga aaaatttcct aaattccatt
121201 ctgctgggca caaaaagtta ttgacaaact aaatgtgccc tttctgcatc ttgtgtatca
121261 gttgttggga caagcaggac ccaccagaag tcctttaaat ttaataggat tcatggtgag
121321 tttatgctga atttgctaga tttctctttt acatgcttaa tgagggattt tggggataca
121381 agctaacaaa ataatgagtc tggctgtgga aatatctgta gaatggaaaa tcagtaaaga
121441 caattacaat caacaatgag tacacatgat gaaggcctca agtgatttag gaattgtaaa
121501 tatacactat tttaatcata gtttccagtt gtgtttggaa aataattatg acacagtgta
121561 ttttaacaga attacctatc ttaagaaaga ttacaggact cttcatttct tactctttga
121621 ttgaagacaa actacacgga gtataagagg ttttggaacc ggtttgtcat gcttataaaa
121681 gataaggaag cccctctcac atgtaaaaag gctgctcgaa caaaataaag cctcaatatt
121741 gtatgctgca gataatagtc ccagtcgtcc cagtctagca gggcgtatta cccaccaact
121801 attttttcag agaaagtagt ttgttctttg caaactgctc aagtaataat caaactgagg
121861 agtgcaaaat aattctgaca tatttgcaca tgaggagtgc aaataattct gacacgatta
121921 ctactattaa aatactccta tcaccctgct ttggaagaaa tgctgcaatt agtatacaga
121981 cagtgtatac taattagtat aattgcaagc ggaggtgcag agggaaaatc agaccttatt
122041 cttttatttg aaaagctggc tgggtgtgga ggctcatgcc tgtaatccca gcaccgagag
122101 gccaaagccg gaagatcatc tgaggccagg agttcgagac cagactgggc aacatagtga
122161 gacctccatc tttaaaaaaa aaaaaattag ctggtgtggc ggtacatgcc tataatccca
122221 gctactcagg agactgagca gggaggatgg cttgagcctg ggaggtcaag ctgccagtg
122281 agctgtgatt gcaccaccac attccagcct gggtttcgga gtgagatcat gtctcaaaaa
122341 aaaaaaaaaa aaaaaaagcc aattacattc agtcgcaaca tttctagatc aaaggtttga
122401 ggacatattt tcatcaaagg atttatttaa atgtgaaata tactagacat caaagtataa
122461 gtgaaggtga aaatccaaag cgtgattctg aaagtattcg gaaagcatct cctttcaacg
122521 tgtgtgaacc ttacattggt gaggctgtat cagtggaact gcatcatcac cattgaccaa
122581 atcttcaagg ctagcagttt aaaacaaagt gtctttccct tctttggtac tgctagagag
122641 aaaggaaagc ccactgacaa catctctatc tctatcagca gtgcctatct tgatagagct
122701 agacaagaca gctccctaac accatgatga aactgagcat tcattcaaca tcatctgtgt
122761 gcagcatggt acccacagga gcaatctagt gactaacagg gccatggaat ttcctgtcct
122821 cagccataac atcaaattta aaaaattaaa ctactaaaaa tgttaatgac atttataatg
122881 atcactataa ttcataatat aattatgata aattttgggt taattatata ttcctgtcat
```

FIGURE 1 (continued)

```
122941 ttattttatg ttgacaatac atggtgttgg ctaaatatta attcttaaca tttggccttt
123001 ctgtatttct ttaaattgta tggtcactgt cctttttactt aatagtatcc tgaaaatact
123061 ggctaatgca ttaaatcatg aaatagaaat gaagtataat tccttaagga gaggacataa
123121 aattaatact atttacagat gacacaaata taatgctagg aaacctataa gcatcaactg
123181 gaatagtttt agaattaatg agcattcatt agcaacctaa aatgttagca gcatagagat
123241 ttaaagtaag atttaaataa ttaataatat taaataataa aaaataagat ttaaataatt
123301 agaaagatta ttataaaaag aaagaacttt tactagtgaa aaaaattggc actgtaaaga
123361 tgtaaatact tcttaattaa tttgttggtt taacaaactc ctggtcagat ttccagcaga
123421 atttatttta gagcttaaat atcaaaatat catctagaga aataagtggg taaaagtggc
123481 taatttttaa aaatcaaagt gatggaaaga aaattaatct ttcagataga cactatatta
123541 caaagtaaca ttaagtaaaa tggtacgatt ttactgaaag aaaaggaaag atagctctca
123601 aacaaaatag atagaaatat attacaaact tatggagaag ggaaggaatt tgttgtaaat
123661 accttaagga taattagttc tttagggaga aacaatcaag aacctcctct ctttcatcta
123721 ccattagttg agttaatatt taataagagc ttctagtagt gcctgacaca aatatgcttt
123781 atataggtat ttattaaata aagaaaacaa ataagatacc aagataaatc taaaaacttt
123841 aaagtaaaat aattaaccct atagaaataa atactggtga cttgagaatt tctctacaaa
123901 aaaaggtaaa aattgattta tttagtacat ttgttccatg ccggaaacaa aatagaaagc
123961 aaacaaacat ctgggtaaaa tatttcttag caaacatggt agacaaatat ataaaaaact
124021 cttaaaaaac aataagaaaa ttagtaagag ttcttgttaa gtaaagaaca cagacaagtg
124081 acaaaaatat gacattctga tagatttatg ataataatac ttattcaagg tcataccatt
124141 tttaaaaatt ggtgaagact tcaaataatc tccatgtttt agaatactgt taaaatttta
124201 aaatcaaaag taaggagctc atggttaaaa ggatctcata atgaaaatca agcttcttgc
124261 cttctcctcc ctactctgag ttcaattctc tgaaagcaag cacttaactt tgttgcttct
124321 tatatttacc ttcatgtctg tgagtggtaa acataaactg ctttttcctgt tttatcagtt
124381 ttatacctta gatattgatt tctgcagtaa caaatgaaat ttcagctctc agtgcatacc
124441 ttcctctttt tcccattcta cccatgtaat tatatcactt tcaaatcact gatgtcatat
124501 aaccacataa atattgttcc ctgcgaaact cactaatgtt ttacgattat atgccttta
124561 ctgtcttttg cccccctgtc cctctggagt ttctgattgc ctttatttt ttatagcact
124621 aattgccttt atcatattgt tttttcaaa ctcttgatta tatcaggtgt gttagcaaat
124681 tatctcctgg acttagacca ctgttccata aacctagatc tttttgcacc aatcttggct
124741 acttgctctg caaagatttg ttgaaatgct gtatgaaaag agggagtggt gagacactca
124801 aacagtgctg gtagagtata aattgttaca accaccctag aaagcaagtt gtcactatat
124861 gacaaaagct ataaacattc aaagactttg accctacttt tcacttctag aaattgcttc
124921 taagaaaata atcagaaatg tcattcagat ttgtgtgcaa agatgataac tgtaatgatg
124981 tttatgtgaa aaagtggaag taacttgagt gcccagttat ttgtgagtcg ttagtagatt
125041 gtggagtact ctagattcat taaaattcat tggtagagca cttttgaaat ctgcttcagg
125101 gaaacacctc gaagagaaaa gtagctatct tcaagcgact aaaactgaag tataataaga
125161 gaaccatgtg attcaagcaa gtccacaaca gagccaacag agtctgcttt caaaggaatc
125221 tgcaaattga aggatacaaa caggtacgct ccgaaatctc aagggtggaa ttaattgctg
125281 tagtgtgcct gtgcacatgg gcaaccctat gtagcatgca tgttccagat gggtaacagg
125341 tgcttgattt tttaatgtaa tgatggttgt gctgctccca agcaatgaga aagagggcag
125401 ctgtggatga atgggcgtag ggaataggta aggatgtgaa actgacaagg aagggaagcg
125461 gtgttattaa ataaaggctg aatattcaca caggggatac agaacacttc ccctaatgct
125521 aaggtgctga ggaaaggctg tgtgggagat gagtagatgc acgttgagaa ttatgagggg
125581 aattacgtca tcagggaaa tccaggtttc acctgggatg aggcggcggc gcatgtattt
125641 aaagaacaga ttgcaaattt ctgagctcct tggcagcaga gcaggtttc cagaagacat
125701 atggttacag ttaaaggaag ggtcaaaagg ggaaggatgt gtcacagaaa ggtcaggctg
125761 ctctcaatgg aatggagact tatagacatg gagagagggg tcgccagaat tagtcccta
125821 gataactagg gaggagaaat tctgggagtt gaggggtaca gagcaaaggc atcaacagaa
125881 caaatgggac agaactggca gccccagcat ttcaaatgaa acttcggaat gaactaggga
125941 agatacctcc acaaactatt gtttcaacta tctcaggtac acctaattgc cataggccta
126001 tcagcatttt tgaggttgac ttcatgcaca aatatttttg ggaaacctg atggctaagt
126061 aatttgaata aacgccttga agggaatgaa gtggtaggga agatggattt ggaattatct
126121 gttcctttt tgtaaaagca tagatgagag aggctttggg gtacaccaac aaaagacaga
126181 aaatgcagta ttagctcaag aaacctgggc caggttgttt gccttgaggg agcaagaggc
126241 ttgtgtggga gccttccggg actgtgtgaa atcttggctg agttttgagt caaggtcgac
126301 cagatgcagg tctggcttcc cagagagtag atctcactcc cttgctgaag cacaaatctg
```

FIGURE 1 (continued)

```
126361 ctgggagtgg cgctgacttt ggactcgagg aagagtgaga gtaaattagt aaacaaacta
126421 aaataggaaa taaaaatgat ttatggtttg taagtagaca cataaaaatt ttcaaggccg
126481 ggtacggcag ctcatgcctg taatcccagc actttgggag gccaaggcgg gtggatcacc
126541 agagattagg aggtcgaaac cagcctgacc aacatagtga aaccctgtct ctactaaaaa
126601 tataaaaatt agccggcgt ggttgtgggc acctgtaatc ccagttactt gggaggctga
126661 ggcaagagaa tcgcttaaac ctgggagggg gaggttgcag tgagccgaga ttgcgccatt
126721 gcactccagt ctgggtgata aaagcaaaac cctgtttaaa aaaaaaaaa aaaaaaattc
126781 aattaaccac ttgacagtgt tttactctcc cagttctcca aatgtttatg tttaacctag
126841 ggcacaattc aaagtgggtg gtgttgtgga agctgagtgt ttacatgtgc tttcttattt
126901 ctgggtaatt ataaggagtc aatgtgcaca ttttctttag agcaggacac ataactgtga
126961 agacagctct atcatcttaa aaatatttgc attttaaata ttttattggc ccaaattttg
127021 agaaatggaa cacacagata aaagaaaatg tattgaatat tctgacagac aaagaagatt
127081 caggggaatct caaatacttt taagccagct tgtgatctca ttccagattt ctaggtagct
127141 gcacttgagt ttccaaattt cacctgctaa atgtacaatt ttgggtaaat atagggaaca
127201 ctgtccagtc ttcaaaagca gtagaagcaa cttcgttgag gagttagcat aaaaagaatc
127261 tgttacaaaa agtgggtgta caaatgcaaa tttttgatgg agaataaaaa ttcacccaag
127321 atctggtttt tagcttggct ttcacacagg gtactaggca ttcacagacc agcctcattt
127381 ttcattcctt tgacataaac tagccccacc agtttgggtt tgtagagaga cttctatctt
127441 cctaatactc atttattgac ttccatcatc agagttctca cggaaaaacc tttcaccacc
127501 ataaatcaac ttggatgtta ttgatacttg gcctggagtt acacaaacac aatgagatcg
127561 tggaagagag ggttaaatgg attattctgg acatctttca tgaaaattga ggctcctcac
127621 atttctctcc tgtgtttttct ttttctgagt ggcttcttaa tttcagtatc attttctttta
127681 tcctttctgg ttccttgtta aaaaaaagaa aggaatgtgt ttcctggaaa ctgtctttgt
127741 caactaacct ttgcatttta agtgatactt ctgttgtctt gatttctaaa gatcacgaag
127801 gtctagcttt cctaaaactt gtttgagttc atgaattgtt attttgaacc tcactgaaat
127861 gtttaaaatt atttccattg agaaaaaaat ttcattctac caatacaact atttttatct
127921 gtaatactca aggagttttg ctgagtgaag aatgaagagt aattcctaat ataaaattaa
127981 taggcatgta agctttcata atagtacgaa tattctcatt tttcctatgg gtaggtcttt
128041 gctcatcaag atcccaatgg ctctagtaag agaagaaatc caggcacctg aagcagtaca
128101 gatggtagca agggttgtga ctaggagctt ggagtctaag agagagcaac tctggcttga
128161 atctttagct acaataactg tatagacatg aaataaagtt cttaacctct ctgattttca
128221 gtgtttatag gtgactaaag taggtatgga aaagtgggtt tcagataatg gttctgaagg
128281 acagaataat catttttcca aaaataatag gagcagatat ataagagaat attatttgaa
128341 ttttttgttt aaatctagta agtgggttgg aagggaaaga attgaagaga gagtgctcta
128401 gaccagggt gtccaatctt ttggcttcct tgagccacat aggaagagga agaattgttt
128461 tgggccacac ataaaacaca ctaacactaa cgatagctga ggagctaaaa aaaattgcaa
128521 aaaaactcaa tgttttaaga aagtctatga atttgtgttg ggccacattc aaagccatcc
128581 tggaccacat gctgcccatg ggccatgggt tgaacaagtt tgctctagac agaaggcgtg
128641 gcatgaagat attctcagag ccagaagatg gggagaacta gagaagatga actgggcagt
128701 aggaggagat gaagaaagca aaagatgact aagacagtcc tctctgccca caaattcata
128761 atattaataa tggatctttt ttactagaat ttgatatcac aggtcacttg atttcttaat
128821 tggggatttc ttttatgagc catatcctcc actttgctgt tccctctcta tttatttgaa
128881 gagacaagtc caacacataa aagagaataa aggtctacac catttagcct gatgttaagt
128941 gcaaaggat tgcagagtca gagatgaata tgggatggag tatggctgca ggctccaagg
129001 atgaaatcag ggtttgaaga agtttccgaa atgccagcag caagtggagg tcttgttgtt
129061 agctttgaca ggttgtagac agctttgtac tatacctgtc caatgccaag cgatatgtgc
129121 ctgatatgta ataatttctg aatttgttaa gggaatgaaa ataagaatct acctgctatg
129181 ggctgaactg tgtcctcttc ctcctcaaat tcatttgttg aagggttaac tcccagcacc
129241 tcagaatgcc actacatttg agataggtg tttaaagaag taattaaggt aaaatggggt
129301 tatcagggtg tggtctaacc cagtgactag tgtcctcata ataagaggag tttatgacac
129361 agacagaaag acaccagaca tgtgcatgca cagagggttg cccctgtgaa gatagaggga
129421 gttggtggcc ttctacaagc taaggaagga gacttcagaa aaataaccct gctggcatct
129481 tgatcctggg cttctatgct ctagaattgt aagaaagtac actctgttgt tgaagacacc
129541 cagtctgtaa ttatttgtta cggcagccct aataaactca cacacgatcc attttgtttt
129601 actttccctt caaataacaa tgatgtctta gttatatgtg ttgtttagtc ccatggtagt
129661 aactcatttt ttaccagtcc taaatgactt atttagggag agaggagaaa ataaatttgg
129721 agaaatgcag aacatacatg aatggggaac agaaacaaaa gtatacatga aaaagtctac
```

FIGURE 1 (continued)

```
129781 agttgcgatg gtgcaaggct accctggtta agttgaggga acccttccct tatttcccaa
129841 tgactcagag actggtcact gcttgacaaa gtttctccct agagaagtca ctagtattag
129901 aagaggacac agaaaccagg gccaccctct taagtcattg tttcagagat aagccagtgt
129961 gggggaagat gtgatgaggc atagaagctg gaatttgagc cttggttagg taactgagga
130021 gaccatagga attgcttggg tggggaaaaa ttaattacgt gattttgtct cacactttga
130081 tacatgcaaa ataagtttag aacaaacatc aaggaagaaa gaggagctaa taatgattga
130141 gtcatacctt ttaaggaata tgtgtcaaag atagccttga aagagaaaag aagtggagaa
130201 gatactccag aaactcaaaa tggaatgtca ggtgtgggca aaaagagttt gagataacag
130261 ggaaagggtt tagagcagag caggagggaa gaacacagtg ggaccggtgc tattccaggt
130321 gctaatcaat gccctggaac tgctcttact gatctaatgg ggatccaggc aggaaagaca
130381 cagtccttct tctccaaaat ctcccagccc agtgatgagc actaagtaaa ttgtgacgac
130441 tctacagact tgcaagtgct aaggtgggaa cccatggtgt gcactgggag cacagaggag
130501 ggacctcttg cctggtgcta agggaagggg gtcagaggag acctccccag gaaaggtgac
130561 aactaagcag agtcctgatt gagagtgggg gctaggccag caaagagatg tgtggaaatg
130621 catttcaggc ctgcagaaag tttgtgagat gggagagcat gactcattcg tcaaaccaca
130681 ggaaggtatt atggctggag tagaattttt ctgaaatgcg gtcttttctc agtggtaggg
130741 aagaagggca aaggagagga tgtatagtgt ctctctcaga acttaaaaat tcttttttgt
130801 taatgcaatt aaatatgtgtg taccatgaat cacctggatg atttgcatat attcaggagt
130861 gattatagta aagaagaatt taggacaaca ccaaatccag caatatattg ttaaaatgtt
130921 gttttgaatt aatgcataat tgtacatgca ggtatacctc attttattgt gctctccttt
130981 attgcccttc gcagatattg tattttttat aagttgaagg tttgtagcaa ccttgcattg
131041 agcaagtcta ttggcaccat ttttccaaca gaagtgctca cttcttatct ctgtgtcaca
131101 ttttggtaat tcttccagca tttcaaactt tataattatt attattctgt tatggtgacc
131161 tgtgatcagt gatctttgat gttactatta taattgctat ggtttaaagg tccctgtagc
131221 ccatggatca aggagtaatt ttgactttca agccttataa tttaagaaac tcaagttagc
131281 acatgaatta taagaaagca aaatgccaga ttgttgatat ggagaaagtt ttagtagtct
131341 gggtagaaga acaaaccagg cacagcattt ccttaagcca aaatctaatc cagagcaagg
131401 ccctaactat tcgattctat gaaggctgag agaggtgagg aagctgcaga agacaagttt
131461 gacactagca gaggttggtt catgaggttt aaggaaagaa gctatctcca taacataaaa
131521 gtgcaaggtg aagcagcaag cgttaatgta gaagctacag caaattatcc agagatctac
131581 ttaagatcat tggggaaggt ggttgcacta acaacagat cttcactgta gataaaacag
131641 ccttctattg gaagaagatg ctatctagga ctttcatact agagagaagt caatgcctgg
131701 cttcaaagct tcaaaggaca ggttgacact cttgtcagag acaaatgcag ctggtaactt
131761 tatgttgaag ccaatgccta tttaccattc caaaaatcct agggccttta agaattatgc
131821 taaaagctgc tcttcttgtg ccacataaat ggaacaacaa agcctggatg acagtacatc
131881 tatttacagc attatttact gaatattta agctcaccgt ttagacctat ttttttttaaa
131941 tggctttcaa aatactacta ctcattgaca atgtacctgg ttacccaaga gttctgatga
132001 ggatgtacaa agagattaat gttttcctac ctgctaacac aacatccatt ctgtagccca
132061 tggatcaagg agtaattttg actttcaagc cttataattt aagaaactca ttttataatg
132121 ccatagcttc catagacagc gattcctctg atggatctgg gcaaagtgaa tggaaagcct
132181 tctggaaagg attaaccatt ctagatgcag aataatccca tttaactact ttttcttttg
132241 ttgcatatgc ttttgaggtc tgaaaaatcc ttgcccagac aaatatcaca aaatgttttc
132301 cctatgtttt cttctagtag atttatcttt ttaggtctta catttaagta tttaatccat
132361 tttgagttaa tatttgtaat gatgagagat agaggtctag ttttactttt ctgtatgtgg
132421 atatccagtt ttcctggcac catttgttga agagattgtc ctttcctcaa tatgtgttct
132481 tggcaccttt gtcaaaaatt agttggctgt aaatgtgtgg atttatttct gtatcctcta
132541 tcctgttcca ttggtctatg tgtctatttt tatgccagta ccatgctgtt ttggttacta
132601 tagacttgta gtacattttg aagtcaggta gtgtgatgcc tccagcttta ttcttttttgc
132661 tcaaaattgc tttggctatt tggagccttt tctggtttca tatgaatttt aggatcaact
132721 ttttctattc ctgtgaaata taattttgtg aaaaatatca ttggtatttt gatagggatt
132781 gtattgaatc tatagatgac tttgagtagt atggacattt taacaatatt aattcttcca
132841 atccacgaac atgagaccgc tttccattta tttgtgtcct cttcaattcc tatcatcaat
132901 attttacagg ttttattgta aagagttttc acttccctgg ttaaatttat tgctgggtat
132961 cttaattttt gtagctagca taaatgagat tgcttccttt ctttcttttt tagggagttc
133021 tttatagttt tatagaaatg ctactgattt ttgcatgttg aattttgcat cctgaaactt
133081 aaatgaatta gtttatcagt tctaaaagtt ttttggatag agtctttagg tttttctata
133141 tgcaagttca tatcatttgc agacagacac agtttgactt cctctttttc aatttgaatg
```

<div align="center">

FIGURE 1 (continued)

</div>

```
133201 acctttcttt ctcttgccta attgtacttg ccaggacttc cattactgtt tttaatgaaa
133261 gtgccgaaag tgggcatctt tgtcgttttc cagatcttag agaagagctt taaacttttc
133321 ctcctttagc atgatttaac tgtgggtttg tcatatatgg cctttattgt gttgaggtct
133381 gttatttcta tttgttgaga gtttttatta tgatgagatg ttgaatttca tcaaatgctt
133441 tttctgcatc aattgaaatg attatatggt ttttgtcctt gattctataa tgtttattga
133501 tttaggtatg ctgaaccatc cttgagtcca tgaaataaat ctcacataat catgataagt
133561 gatcttttta atgtgctgtt gaattcagct tgctagtatt ttgttaactt ttttttgcat
133621 ccatgttcat cagggagatt ggcctgtagt ttcttttttt ggttatgttc ttctctggtg
133681 ttagtatctg ggtaatgctg gctttataaa attaatttgg aagaattacc tccttttcaa
133741 tttttttggag taatttgaaa agaattgatg ttcatttaaa aaaaatgttt ggtataatac
133801 agcagtgaag ccacttggtc cggggctttt ctttgatggg agatgtttta ttattgattt
133861 aatcttgtta tttattattg ttctgctctg ttttctgttt cttcataatt caattttggt
133921 agcatatgta cctagaaact taaccatttc ttctagattt agcttttcat aaaagtcact
133981 tatgatcctt tgtatttcta ggatcagttc taatgtctct tttttcactg ctgactttat
134041 gtatttggct tttatcttta tttcatagtt agtctggcta aagattggtt gattttgttt
134101 atcttttcag aagaacaatt attggttatg ttgatctttt taattttttt ctctattttg
134161 tttattgttg ctctgatcct tattatttat tcccttctac caattttggc tttggtttgt
134221 tcttgttttt ctagtttctt gaggtacaat gttaggtttt tatctgagat ttttctattt
134281 tgttcatata gatgttaatt gctatatact tccctcttag aattgttttt gctgtatccc
134341 ataggttttg gtatattgta tttccatttt catttgtatt aaattatttt taaatttcct
134401 ttttaatttc tttattgacc cattggtctt tctggagcat gtttaatttc tatatatttg
134461 tatgttttcc aaaatttctc ctgttactga tttctaattt tcttccactg tggtctgaaa
134521 agttacttga cataattttg atttaaaaat ttttttgac acttggcttg tggcctaaca
134581 tatgatctat cctgagaagg tttcatgtgc tgttgcgaag aatgtgtatt ctgtagcggt
134641 tgggtggaat gttccgtaat gactgttagg tacatttggt ttagagtgca gtttaaatat
134701 gatgtttctt tgttgatttt ctgtctggat gatctgtcca ttgctgaaag cagggtgttg
134761 aagtcctcta ctatcattgt attgaggtct ctccctccct ttagatctaa taatatttgc
134821 tttacgcatt tgggtgctca actgctagtt tcacatatat ttacaattgt catatgtact
134881 actcctgctc tcttttggtt tctctttgca tggaatatga gcttccatcc tttcactttc
134941 agtttatgta tgttcttaca ggttaagtaa gtctctcaca ggcaacacat acttgttttt
135001 tttttaaact ctatttagcc actttatata ctttaattat gaaatttaat ccatttacat
135061 tcaagattat tattgatatg taaagactta ctcctgctat tttattaatt gttttccggt
135121 tgttttgttt atcttctgtc tctttcttcc tctcttatgg ctacatttat gtttgggtga
135181 ttttctgtag taataaactt tgatttcttt ctctttctca tttgtgtatc tgcagtaata
135241 tttttctttg cagttattct ggggcttaca taaaatattg tatagttata atagactatt
135301 tttagctgat aataataaac tttggttgca tacaaatatt ctagactttt actatccctt
135361 ctaaaatttt taattttgct gcttaattta catcttttta tattgtgtgt tccctaacaa
135421 cttattgtag ctagacttat catcgaccat gttgactttt taacttcaca gtagagatat
135481 gaaagattat gtaccaacat tatggtaatg aagtattttg aatgtgataa taaatttacc
135541 tctaccagtg agattagact ttcatatgtt ttatgatagt aattattgtc cttttgcttc
135601 caattggaat acttccttaa acatttttg taaggctggt ctagcggtga tgaattccct
135661 cagcttttgc ttgtctgaga aaaaatgtat ttctccttca tttctgaaga tagctttcct
135721 gagcataata ttatacatga cattgtaatg acactttgaa tgtattatct cattttcttc
135781 tggcttgtaa ggtttctttt gagaaatctg ctaatagtct aatagaaatt cttgtgtatg
135841 tgacttgata tttttctcaa aaagccccca aatccaaaaa cttttttta agaatgtcat
135901 aaatgactaa gctagaaaga gagaagaagg tgaagttgga gaaatgcagg acaatacata
135961 gttggagaac agaaacaaaa gtctacataa aaaatacagt tgagatggtg taaggctacc
136021 ataatgtaag gttaagggaa tcctctcttt cttttcagt gactcagaga ctggtcactg
136081 cttgataaaa ttttttttct agataattca ctagtattag aagagaacac agaaaccagg
136141 gctacctttt taactcattg tttcagatat agggtgagga gtggtgtgat gaggcagaga
136201 agctggaatt tgagctttgg ttaggaaaat aaagagacca taggaagagc tggagtgagg
136261 aaaaattaat tatgcgactt cttctcacac ttacatacat gcaaataag tttacataat
136321 aattattgag tcatactctt tttttttttt tttttttttt gagacagagt ttctctcttg
136381 tcgcccaggc tggagtgcaa aggtgtgatc ttggttcact gcaacctgca cctccttcat
136441 tcaagcaatt ctcctacctc agcctccgga gtagctggga ttgcaggcat gcgccactat
136501 gcccagctaa tttttttttt ttttgtattt ttagttgaga tggggtttca ccatgttggc
136561 caagctggcc ttgaactcct gacctccggt gatccacccg cctcggcctc ccaaaatgct
```

FIGURE 1 (continued)

```
136621 aggattatag gcatgggcca ctgcgcccag ctgagtcata ctctttaagg aatatgtgtg
136681 tcaaagatag ccttgaaaga gaaaagaagt ggagaagata ctccaaaaac tcaaaatgga
136741 atgtcaggtg tggacagaaa gagtttggga taacagggaa agtgtttaga gcagagcagg
136801 agggaagaac acatgggact ggtgctattc caggtgttaa tcaatgtcct ggaactgctg
136861 tcactgatct aatgggggatc taggcaggaa agacacagtc cctcttctcc aaaatctccc
136921 agcccagtga tgagcactaa gtaaattgtg acgactctac agacttgcag gtgctaaggt
136981 gggaacccat ggtgtgcact gggagcacag aggagggacc tcttgcccgg tgctaaggga
137041 aagggggtca gaggaggcct ccccaggaaa ggtgacatcc aatccaagtc ctgatagaga
137101 gtgggggcta ggccagcaaa gagatgtgtg gaaatgcatt tcaggcccgt ggaaagtttg
137161 tgagatggga gagcatgact cattcatgga accgcaggta ggtattatgg ctaggatagg
137221 ataatttttc tgaaatgtgg tcttttctca gtgatagcga ggaagggcaa agggagagat
137281 gcacagtgtc tctctcagaa cttaaaaatt ttaataaggc aatgaatgta tttgtatata
137341 tactctaaat catttggatg atttacatat attcaagagc tataacagta aagaaaattt
137401 aagacaatac caaattcagc aattttttt tcctttaaa aggatatatt taaacactga
137461 tgagagatgc actagaattg taggcaggac tttttttttt ttttttttt ttcagttatg
137521 gtttacctgc aaagttccta gtcctaacag tagttcagga atccacagat gtctgaagtg
137581 tgagctagca ccccaattca tctgaccata ggaaaggctt tagtggactc atacaattca
137641 agtgagactc tggcactgtc tttgagtttc agtaagtgcc tttcctttca gagatactgg
137701 agaattagaa ctgtgtagaa agtcttccag cgtacaatat agaagcacaa atagagccat
137761 tgaccttaat gggacatttg aggaggtcat acaataaaac agcagtctct gttaagaaat
137821 aacactaatg ggcctggggg tgctaaatag agggtggatt attttcttac ccatatattg
137881 tacttggctt ccacgtcatc tggaagaaat ttcatctgtt atcttcactt ggtcttcatt
137941 cttattttaa aaaaccttct cttcagagca gagcaggtat ctggtgaatt atcactgtga
138001 ctaaacaaat tgtcctttgc ccagtgattt ttaaatatgt acactaccca ccatggaatt
138061 tactaggcca gctaaaactt gagtaggaga tataactaat tctaatggat tttattttga
138121 tgtagataag tactacaatt tagaaaagca taaggcaatt agcaacttaa gaccttgcta
138181 ataaaatgct atttcacttt ctggcagaga gtgcaataga cagagatcaa ttctaagagt
138241 aaattggttg aatattagtg cagagccctg tgatgccatc aaaacatatt aggcatattt
138301 actatatcat ggaaagtcct cagtaatagc acatacctcc ctgatggaaa aagtggccat
138361 ttattttaa aacttttatt tatctcagct caaattttta gatatgtttc tcccccaatt
138421 agaatatgag aatagggact gtattgttta caactaactg tattgccagc atctagaaca
138481 ctacctggtc tgtaataggc tctccataaa tattttcaga ataaattaga atcatctaca
138541 cacctacttt gacatacact gtctggtgct ttcagatctg tctcactcaa tttttgtcag
138601 agctagtcag acgtcccatt ggtccaatgt ggaagctgag atcagagcta actgtccgag
138661 gacaaatagc tagcaagtgt cagatgtggg attcagccca agccttctaa cttcactctc
138721 aagaatgttt tcttgtctac cttggattta aggaacaatt ctggttcttt gctgagagga
138781 ctgggtactg gctgctagaa agctttttga attatttctt ccttctcctt ccttccttcc
138841 ttccttcctt ccttccttgc tccttccttc cctccctccc tccctccctc ccttccttcc
138901 ttccttcttt tccccccaaag accctgata tgaactagat aggttactag tggatttcct
138961 tccagatttc aatgtttact gatataccaa gacattatgc aacctcaaaa cacttctaac
139021 ccaagagcac ttctaatggt acccacgggg gtccctcagg actctggctc ataaatgggc
139081 tgtcaggcct cagagccctc agttggccgc ttggggctct tccctcatag acatgcttcc
139141 ttgtgtcaca tggacagaca gaaagtactg tcttgatgag tcatttttgg ctctgaagct
139201 acttgtcact caggaggcag gagagggatg tgatagaatc tttgcctgaa ttcttgaagg
139261 gagaggcttg gcctggttac acatatttct tttgttacaa aatcctcatt aaaatagaca
139321 ccttttactt gacccagcag atctgtagtt gtttattttc tctctattgt aaccaaaatt
139381 taattttcc ccaacctttg gacttgacca tgaagatgat aaccattttt agatatttat
139441 ataatatttg taatagattt catgtaatgt ttatattata tatatttat aaatgtaacg
139501 tttctcactt tcttcttaac aagatctggg gcaaacaatt tcaggttaaa gaaatggtat
139561 ttttaaaagt tgtaggggac attttatggg tagaggcctt gcaccgtgt ctcccttctt
139621 aattagctgg ctagattgca gactcactct ttgagcgaga ggacttggtt tgtgtgtttg
139681 ggggcaccgt gtgtgtgtgt gtgtgtgtgt gtgtggatgc atgcatgccc atttgtattt
139741 gtacataagt taaaaaataa gaatcgtgcc gggcatggtg gctcacgcct gtaatcccag
139801 cactttggga ggccaaggtg ggtggatcac aaggtcagga gatcgagacc atcctggctg
139861 acatggtgaa accctgtctc tactaaaaat acaaaatatc agctgggcgt ggtggtgggt
139921 gcctgtagtc ccagctactc gggaggctga ggcaggagaa tggcgtgagc ccgggaggca
139981 gaggttgcag tgagccgagg tcgcgccact gcactccagc ctgggtgaca gagcaagact
```

FIGURE 1 (continued)

```
140041 ccatctcaaa aaaaaaaaaa aaaaaaaaaa aaagaatcct aacacacaag gagtttatt
140101 atttacccaa agatgttggt agtttcaggg aaatttctag gaaggggact tccatccaga
140161 tggcatttc cagtagcaga aagagaaagg aacgatgtga ctgttagtgc aagcactgtg
140221 ctgggaactc cacgtatgct atgaattcaa tctgtactta aaaataagtt ttactgagta
140281 ccttctaaaa gtaagttact gtgcaaaagc tgggaaaaca aagatgaaaa aagtacattc
140341 ctttacgcca aggaatttac aatctgaaag gtgaggcagg tgaacaactg gtgattttaa
140401 ttgggtgtaa taagtgttat gcaagacgtt tgtaccgagt tatggtgcag gaggacttag
140461 gagaggcacc cttattttgt cttagccaga caaggcttca taaatatgta cgttggaggg
140521 gtttagggaa gacttcccca gggaggagac attcaccttg agtcttcaaa cgccagtcca
140581 gaagcatagg gacagcttca ctacaggcag agggaaaaac atgccaagct cccagaggca
140641 gagctggaca agttcaaggc tcctgctcaa acaccaatgc ctgggaggca gggccatttt
140701 gaagagttca gattcatttt gatggctgtg gttaatgggt caaggattta aagtgggggga
140761 gaaatagaat tagttttgca ttgataaata taaatctgtt aacatttttga atatagacat
140821 atgattattt ttgtttgctt tttttggaca tttgcttctt cagaatgata agaaaggagg
140881 aacagggact ttgctgtaaa cagacattca caggatcacc tgattattat gctggttgtt
140941 ggtctaattc tcttcccatg aagcattttt ttggaaaatc tagtgtgtta tgaaattaac
141001 tgacttaagt taactgtctt gcaatatgat gaatggatta aggagaaaat gacactagag
141061 gctggaaacc aagcatgagg ttgtttgagc aatccaatga gtggaaatgc tactaggaga
141121 tagaattgat aagattggga aggaagggtt gaagagacac aagcgtcaag gatgtcttga
141181 gaatttctgg cttgggcaac taggaggaca gtgataaaac aatagtgaac atttattgag
141241 caccaactac gcaccaggta ctgttctatg tcgcctcaca tatctgagct catttcatac
141301 ttaacaataa tgcgtgatgt aagtactact ctttttcacat tttgcacatg aggaaatgga
141361 aacagaaagg ataagtagct tgcccaaggt tacacaatta gtaagaaata gatttgggag
141421 tcgtcagttc ataaaggtct tgcagacgaa aacaatggat agaattactc aggaggtatc
141481 tgttggatga ggaaagggcc aagggcgaat ctctgggaaa ttccagtgtt tcaggaatcg
141541 gcagaggaag agtcgtatat tacaatatgt caggagtcag cctgtgaaag aggactgagt
141601 tggaccagta caagaggttg gagaccctgg aagacaatgg cgtgatagac atcaagggcc
141661 tccagggcgg gactaccgcc tgcttattct ggataaggaa atggaacctg gggaatggta
141721 gacctgagat ttgctggaag ccctgagatt tgctggaagc cttgtgttct tcccatggct
141781 ccagaacccc tttgggatta aggcatcatt tgtaggacaa gcctgtggtt tttatttttg
141841 gactcgataa tctggattga tgaagaatgc aggagtggga cttggttatg aattaaagat
141901 catattatct ccttcttaaa atgctggttg taaatttaat ttcttctcta agaaatcgtt
141961 tactggaaca tttattgagt aagaaaatta cttgctttga attatagctc ttctttctc
142021 tttagtaaga attagctaaa aagtatctag gaagagaagc agaaaacccc aattatcccc
142081 caaaaattca ttctcatagt gaaccttcag aaagtctatt ggaaaccctt attatttaca
142141 ataactgtta agataagctt attgaatatt cttcccagat taaaattcac caaacctcat
142201 cagttctcag agatctctgc cttcctcaag ccactagata gccagtaatt tcctttcctt
142261 ttattgaact gtatcagctt cagaagacgc gatataatcc tattggtttc tgtcctcaca
142321 ataacactgc tgggacccat cctgagggtc cttgagggtc tttaacctct aatgtctggc
142381 cactctttct tcttagtctg agccatatat atcattctca tatatgccac acataccata
142441 catgtcgcat tcattcaaat cctacattta aaaatctctt gcaaaagcca gcttgggcca
142501 ggcatggtgg ctcatacctg taatcccagc actttcggag gccgaggcgg gcagatcact
142561 tgaggtcagg agttcgagac ctgaccagcc tggtcaacat ggtgaaaccc cgtctgaact
142621 aaaaatacaa aaattagctg ggcgtggtgg tgcgcacctg taattccagc tacttgggag
142681 gctgagtcat gagaattgct tgaaccctgg aggcggaggc tgcagtgagc cgagatcatg
142741 ccactgcact ccagcctggg tgacagagcg agattccgta aaaaaacaa aacaaacaaa
142801 caaaaaaagc ctatctcaaa tacttgagtc ctttatgaag tttagcactt ggcttatttt
142861 ttgaaagaat actaccttct ttcctgaatt tatattttca tctcccctcc tccaacttc
142921 tctggcagtg cttttttgcag ctggactccc aatttagtca tcataaaatc actgtagtca
142981 taaaacctgc ttggatagcc ctgagcataa cttgtcaatt tttatttatt tctttgttta
143041 cttgtttggc agtctcttcc actaccttaa agatctaagg agataggaat tgtgtatttt
143101 tttatttact agtgtaaatc ctatttgatt gtaagtccag tgttcttttt cccacaatat
143161 acaggtagca gaggcagaga ggggaggtat gtccctgaca caaggaccct ggaaaagaga
143221 tgggaaaatt aggaaattta cccactccta aggctaacca gaaaactcca cgctagatag
143281 ctggtgtgag ggctgggtct gtagggaaga tgagctggga gccagaagat gaagtgttga
143341 gatggatgat aaaggaaagt ctcagccaag acaggagctg gagctagctc tgaaacacat
143401 gggaagctgg caggatgcgg tcagaggtca gagagcgatc agggttggtt taggataaat
```

FIGURE 1 (continued)

```
143461 tttgctaagt cagggtgtct gaggacagat cttttttat  taaccatttt gcatgctctt
143521 gtcccgcaag gacctgtgcc tccttgcaca ttcattttgc agaaagatgc cactaggaaa
143581 atttgaactg aataggaaaa aaactatctg gtgaaatgaa aatgatcaga accttaaatg
143641 aaactgtggc ttatcattcc tttcaacagt ccaaaaagga aaatccagca tgaaggcaaa
143701 cagatactag agattaccaa aagtagatta caaaatgtgc agtaaaaatt aagtggaaac
143761 cttcagagat tgttgaaagg gaaagtgttc aagaagaatg ggaagctaaa aattgaaacc
143821 aaaagtataa ctataagcaa tcaaatcaaa agcaattttg atgaagaaga aaaaagataa
143881 ctagagatct gtataactac agggagaagt tttattagag ttgctttta  aaaaaaaata
143941 cataaataat gtaaggaggg gaatataatc aagttcagat gtaaacatgg cttttaattta
144001 tctgtgaaaa actagctctg tgacaaaata agagaaagga aaagctagtt tctagagtga
144061 gtggaagata ttgcaaaaat tcttaagctg tgggaaatgg gtaaacaata aaaggatctt
144121 tcaaagctat attctcaatg aagacgagca gcaggagcct gcttttttcc agtattgatg
144181 taactttta  ataatataaa aacataaggc ctggaaagaa aatttcttcc tgtatattct
144241 ataataactc agacttatta gtagcatatt cttttgttaa taactttata ccccacaata
144301 agctttttata tgcactattt tatttaataa tatttaacta ctttctccta acacattttc
144361 ataaattaga aaatcaacag tcttccctct ctaccttctt aagacacttt agtgtgctgc
144421 tttatctcta cacaatcttc agtgctttgc cttatatcta caactcaaaa gaaaatttct
144481 gtaataaatg tagtccctgg ctgggtgcag tgattcatgc ctgtaatccc agcatttttg
144541 gagcctgaga cggacggatc gcctgaggtc aggagttgga gaccagcctg gccaacatga
144601 caaaaccctg tctccactga aagtacaaat tagccagaca tggtgtcctg cgcctgtaat
144661 cccagctact cgggaggcta atgcaggaga atcacttgaa tctgggaggc agaggttgca
144721 gtgagccaag aacatgccac tgcactccag cctgggcaac agagcaagac tccatctcaa
144781 aaaacaaaca aacaaacaaa caaaaccaaa tgtagtccct aatgaagaaa caatgatagg
144841 aaattaaagt aaaaatgcct tttttctcag atcaattttt cttttttaag atacttgcaa
144901 attacatttt ctccactgcc tacttcatag ctcaagtctg gcaatttcag ctggaattag
144961 gaagagctcg tgtgctcagc ctcaaaacca tgtctacatt ccgactgcct gattcttcct
145021 cttacagacc tctctgtaca acgtctgttg tgtttcagct ttttgactct tcaaattagc
145081 atctcttcca taaattggat tttgatattg tttcacccca gtcaacattc agtaatagaa
145141 cttatgtgaa acagttcttc ctctgtcctt tgcacatttt cttttcatgtt ctgcatttga
145201 tgatactttg ctctttcctt ttcttctgaa tccttgattt gaaaaaaact ttgtgtagct
145261 ctctgtatat cttactaact aaacttttcc aattgatatg actgtctcca tcatttcacc
145321 tacagcctca atgaaacact ttcctctagg catcttgaga taagtggcac atgatatttt
145381 ctcattctat aatggggaaa ggcagagaga ggctaagtgc cttgactatc tgagtgagga
145441 gttgatctcc aaggagctgt ttaatgagta gacattagtt tctgttgagt tggatgatct
145501 atatttggac catgtcatta ttaatagttt cactttcctg aaaattaggt gttctcataa
145561 tttggagttc tggctaaatt aaagattgtc attttcctta gttatgttct atttttctga
145621 tatgttatat ttgctcccac ctctacatta gtggatggtg cttttccaa aggttgttgc
145681 tgttttcaga ttctgtgttc cctagaaggg atcgaagccc ttgaaacatc actgagaatt
145741 tattacttat tgattatttc tttcattttc tatctagggt tttgaattga tatcatatca
145801 ctttcaatgt aaagaaataa agtgagtata gattagatta aaaaaaatga aaagcataat
145861 tagaattagg atgtcctaga tgttttctgg tcatcttttg agagcagaaa ataatcaata
145921 tgtagatcta cacatatagg aaaaaatgct aaccagtcaa agtggagagg tgggcatttg
145981 cttgagtttc tatgcatgtt agaaacagtt gctctttgct ccattttgtt ggatccaagt
146041 cataacaaag tggtagaatg ttccttgaaa ggggaggagt atgggagaga attgggaaaa
146101 atgaagccac tggtacagag acctggtcat tagtccaaaa agatagtttc ttccagataa
146161 tgtacaaaaa tagaatggat gtggtgggag aaagaacagc cagaaagaaa caaggctgtg
146221 caaatgcttt atctagaaaa tgttagccct ccctggctaa tcttgaaact gtttggaaaa
146281 aatcgtttaa acaagctact ttccagttca tgagatcctt tccactttgt agcaagatta
146341 tgtgctttac atacacatta gcagctttga gattgtctaa atcatgcttc attgcttttc
146401 tcacactcca ggaagaaggg aggttgagaa tggggccagg gctccaggcc tgatcctttc
146461 tcctcttcct cctcctcctt cttcctctcc tcctcttcct tcttcttctt taaaagtaag
146521 tcttcagtac tgcttccctt aaagtcttgc aataacctta tcttgagcta taagcacaca
146581 caaatgaagt atattccttc atttgatccc attttttctt ttcccacatt tctctaaaat
146641 aaaccaacat aataaagtca taatttggag ttctggctaa attaaagatt gacacacaat
146701 gtcattactc ttcattcttt gcttttgcaa gtcacgtgtg agaaagaaac atatttctat
146761 ggccttttga ctgcccttga taaaatctgt acttagggaa atagcaatat caataaatgc
146821 taaataatat taacacaatg tatgcagggg tttttaagct tcacagaaaa aaaaatttaa
```

FIGURE 1 (continued)

```
146881  gacatgaatt  tccaggaaaa  ttattcttgt  aactatccca  aatggttttt  ctttccatca
146941  aaagaacaaa  tggaaaaaag  tgcaaaagcc  aaatcaaaca  aaatccttag  tgtgaaatat
147001  attttggagc  atgtggaatt  aaatttgcat  tttcaaataa  aaacaaatgc  ccgtttaaaa
147061  agtcatctaa  cttttgtcct  acgaagacaa  ccagtaaaat  atactgtttc  ccttttccca
147121  gcatactcat  gtttgggaaa  acatgattat  ctgaagagaa  atttactttt  actaaattag
147181  agtttgaggg  gggagtgtgg  aaggaataat  tacagattat  ccttttattc  aatctcttct
147241  cttggaaaga  agagaagaaa  tgttgaaagc  cagagaactt  ttctaaaacg  ctgtagggaa
147301  tttttttttt  ctgtaaatat  ccaagtccaa  aaggagattt  gcaaaatgtg  gagttggaga
147361  tttgaactca  tacaatattt  cctaatacaa  ataaaaatct  gaacctttta  atggcgacac
147421  agtccacacc  atgaatggtc  aaaatcactg  gagctaatgt  acaggaaggg  gttcctcagg
147481  gaactgtggc  aaattttagc  atcttccttt  cctttaggg  actggacact  catccttagg
147541  acttgagaat  catatgtgaa  aattatatag  acttcccaca  gtctactgac  acattacaga
147601  gatactggaa  atattaacca  cacatgttgt  ctacatactc  tctttctcat  catcataagc
147661  cacctgtgtt  ctcactgaca  ctgcaaatcc  agtaaccaaa  acatcctgtt  aaaattctct
147721  ggcccttctt  atccatgtgc  tgtcctttgc  cacagctcct  aaatcctctt  acctttgaaa
147781  atctttcctg  ctacccttta  gaacctccat  tcagcctctt  tctcaagttg  ctttgtacat
147841  agtgtcttca  tagcagcctt  gtaggaacct  cagcttcctc  accccaatca  ttgtttctt
147901  ttctccattt  gtattgcttt  tcctccgggg  gtatctgtta  atcctccatc  agtctattga
147961  cttatgaata  taaaatccat  gctacctta  cattggaaca  cataaggtac  ctagaattcc
148021  ttttgacacc  tagtggtggc  tcgataaaca  cggatgcaca  tcacgttaga  gaaaaggagt
148081  tttctgagtc  cagatttctt  acatgaaaac  aaatttcaaa  tgaataaatt  tctcactgtt
148141  attttaggat  agctctctgc  caaagacctt  ttattataca  aaagttgaga  atgattgaag
148201  ttattttgct  taattttttg  ccactaaatt  tgatgtgcca  aagaaacttc  taaaaaacaa
148261  aaaagaaatg  cataatattc  ccagctactc  aagaggctga  ggtgggagga  ttgcttaagc
148321  ccaggaggtc  caggttgcag  tgagccgtga  ttgcactcca  gcctgggtga  cagagtgaga
148381  atttgtctaa  aaaggaagga  aggaaggaag  gaaagaagga  aggaaggaaa  gaaggaagga
148441  aggaaggaaa  agcaagcaag  caagcaagca  ggaaagaaag  aaagaaagag  aaagaaagga
148501  aagaaagaga  gaaagaaagg  aaagaaagaa  aaagaaaggg  agaaagaaaa  agagagaaag
148561  aaagaaagaa  agagagaaag  aaaggaaagg  aagaaagaaa  gaaggaaagg  aaggaaggaa
148621  ggaaggaagg  aaggaagaaa  gaaagaaaga  aagaaagaaa  gaaagaaaga  aagaaagaaa
148681  gaaaccatga  aggtagctgc  cgtatttcta  tgaaaccttc  cctccagaat  tagttccttt
148741  tagcatctca  ttcagacaca  tggaaagctt  gtttaaaatg  acttcacaaa  ttagacttaa
148801  tgaagtgact  tgactcaact  cccctcaccc  tcaagtggtc  tttccctgca  tcagagtccc
148861  tttagtttcg  gatgtcactc  atgacataga  atgaacattt  aaaagatgag  gaggcagcca
148921  ctggctatca  cattttctg  agatgtgtga  aatatgattc  taatattaat  aataataatt
148981  aacaaacaat  aatatcctaa  tataattatt  aatcatgaat  tattaataca  taatcatatc
149041  attattttct  cttagtctaa  tttataggtt  cagatgtgtg  catgcatgtg  tgtcagtggc
149101  actcagagag  gagatttaaa  tagagagtgg  gaagggagat  aaaagataac  tgctgcagca
149161  ctggagcaag  aagccaaggg  gaggtatccg  ttaaaaactt  tttgggatgt  gaaccttttg
149221  tttttctaga  ttctggatgc  cggaacatct  gttttttgag  atgcatctgt  aggagcattt
149281  ttgtgtggaa  tatttgaaag  ttatcttgaa  agtaaaggtc  agagacagga  attgaaacag
149341  ggcttaattc  ttaaacaaga  aggtataaga  tattgcagtt  gatggaactg  tggtgagcat
149401  gttccccaag  ggtggtgagc  atgtctgtgt  gggcatagaa  gatacatgta  cgaacatttt
149461  tattttattt  tatttagatg  gagtttcact  cttgttgccc  aggctggagt  gcagtggcgc
149521  aatctcggct  caccacaacc  tctgcctccc  gggttcaatg  attctcctgc  ctcagcctct
149581  tgagtagctg  ggattacagg  catgcgccac  catgcctggc  taattttgaa  ttttttagtag
149641  acatgggatt  tctccatgtt  ggtcagggtg  gtctcgaact  cctgacctca  ggtgatccac
149701  ttgcctcggc  ctcgggatta  caagtgtgag  ccaccatgcc  cagccaaaca  tttttatttt
149761  taatagctta  atgaatgtat  aatgattaaa  tgtttagcat  gtattaaact  atgatttcat
149821  gtagtttttt  taaccatacc  aaccatgatt  tcatatggat  tatttaagca  taccaaccat
149881  aatttcatgt  acattattgc  ttaagatagt  aatgatataa  aattttctta  aaattattca
149941  tgtaaaagaa  acaagtcagt  taaaaggaaa  atattaagta  aaaatgtaca  ggtggcaccc
150001  aaatatggta  aaaattgtga  agcagtttaa  tgaataactg  aactttggga  aatgctagat
150061  tagagaattg  gaaatactct  tttaaataaa  cacttgctat  ctatgattat  cctatggatg
150121  agtgtccaag  aaatagagat  gcatatgttg  tatgttttta  aaatgtacag  gatgaattta
150181  cattgaccat  catatttcct  gtgctaaatc  aaccattatt  ttttggacta  tagggagaag
150241  ctgtgtttct  tcatagctcc  tggagatgtg  tgatgtgtca  caggcctaat  aactatatta
```

FIGURE 1 (continued)

```
150301 cacatttttt cacaaaagtg ctacatagag tagaaatgta taatagttac caacccaaga
150361 ctaaatcagg cctagtggtg tggatagctt cactttgcct atgataaaat acttcctcat
150421 tctttgtgtg attttcaagc aacttaacga ctgttagctt tgctgagcta aatgcaacat
150481 ctcataccaa atttattggc ttggcaaagt tacaaatttt attacgcaaa agttgagaaa
150541 ggaaagctgg agaatgctaa aaacagtaca atttgctact gtgtagtatc tgtattgggg
150601 gctcagcatg ttttatttat agatatctat taatacagag atacagaaag aaatacataa
150661 aaaatagttt tatcaaatac tttccagcat tcaagtgtag cctcaaaagc aagaataggc
150721 caggagtggt ggctcacgcc tgtaatcaca gcactgtggg aggccaaggt aagaggattg
150781 cttgaggcca ggatttcaag accagcctag gcaacatagt gagatcccta tctctacgaa
150841 aaaattttaa aacttagctg ggcatggtgg cttgagcctg ttgtcccagc tactcaggag
150901 gctgaagtag gagtgtcact tgagcccagg aggttgaggc tgcagtgagc tataactgca
150961 ccactgcact ccagccttgg agacagagtg agaccctgtc cccaaaaaaa ttaaaattga
151021 gaaaaaaaaa aaaggcaaga acagccacag caaactttct attggggaaa aaaaaaaatc
151081 ctcctcttta catctctccc ttccttccct tccctttctg agagtgactg tggccaaaag
151141 gagcattttc cccctgcagt cctctgaggg gtggggtggg gctatgaagc tatccttcat
151201 attcactcct ttgtccagct cttttcacct ctagttcttc tccccgcatc tctgtctagc
151261 agtgccttaa gtggaggagg ggtgggggca tcaagcttgt aaaactggtt tgttggggtt
151321 ctccttctcc cctcatttct tgattcttgg gaaaatgtct tgctgggagg ctgcctggca
151381 gtgccctagc tgccttctgt gggcttgaat ggggcttccc tctgcccta caggaggaaa
151441 agggagctgc tgccagaggg agaaatggag agatggacag agaaggcagg tgccacccct
151501 cgccctgac acacaaagaa aaagacacgg aaattctctc tctctcttct cttctcctat
151561 ctctctctct ctccctctct ctctctctct ctctctctca cacacacaca cacacacaca
151621 cacacacaca cacacacaca ggcgcgcgcg cgcgcgcgca ggcacgtc ttgcaaattc
151681 aggattcaaa gagacagggg caccattata tttggcacgg tggggccctt ccaggtctga
151741 aatcctgcat tcttccttac tatttacttt ccccgagctc gagaagggcc aggtgtgggc
151801 ggatggctgg ccacgttttg tgtttccaat tcatattcac gggatgacac agacggggcg
151861 tggtgagtgc tgttggaggc gcttgggcag tttcattttg ccccacttct ccacctgaag
151921 gctgggcgtt gctggaacct gcaggggcag cctcagcaag gtggggtggc gtggagtggg
151981 gtgggagaag ggactccagc tgaagtagaa cccaggctgg acctgagaat attggggagg
152041 gcatgggcgg tggtttccgg gtaggggcct tgagaacatg ttggtcctga ctgttgtcag
152101 tgtttggtca aagttgccaa aaggttaaaa aaaaaaaagt aggggagtc cctgccaaga
152161 catatttccc aggccacctt tcttccgcgg gagtgttggg ggggaggcgc tgcttggaac
152221 ctgtgaatgt gacatcagct ctcctctcct ctcccaaggt cggctttgga gagggaggtc
152281 agggcaccct tgcctggcac aggcggcagc gctggcttcc ggctcagtgc cgcctgtcct
152341 ccgggagctg tggcctccct gggccccggg gctaggctga ggtaagcgca cagcggaggc
152401 caggggcccc ggcagaggcc ctggggatag ggtggaggca tctctgggtg tgggtgtggg
152461 tgtgggtgtg ggagggagag ttcttgcctc tctctctccc atctccaact cttgcttcag
152521 tggctctttt agaggatgca tgtcattatg gacctgtcgc tgccactgtc cctgttcccc
152581 cagctgtgac ttcgagggag gtctggggat ctgagtctgt ccaaacccac ggctttgctg
152641 ttgggataaa aactgtcctt ttgattttag aaggaggagg gaaaaaaggt ttcccagcat
152701 gtgtgttgtg ccagtcttgg aaattcatcc gtgcttgaat tccaccctcc atccccagaa
152761 aaactggagt aaaacaaaaa gaggagatgg acaaagtgtg tatttgatgg catcccctgg
152821 gaagagactc taaatttatc ccataggtct tactgggcca ctgtgagcgc tttggtggag
152881 aacaaacaaa aattctgggt gctcagttgt ctaacctgaa aaatgggact agcggaaaaa
152941 gccaatgtgt tccatgcacc ttttgctttc tttattaagg catgatgtca cctgtacagt
153001 aactgccctg tgtgtacttc aggggggggat ttcaaggtta gatagacagg aaattgtttt
153061 gaaatgtaa acacattatt aaatgtgaag tattatctga ttccttgttc gaatggcatt
153121 tccttctcag caccaccttc cttgcatatt cacttaacct tgtacaagaa cacctttttg
153181 ccctaaatga agacaccccc caaaaaaaa gagtcccaga aaatatgtcc ctgcttgtgc
153241 ggggaataaa tagaatattc tgaggtgcat tcctccttcc tatgttaggc aacattcctt
153301 gaccctcctc ggcccccaag ccaggttgcg tttttttctg ccatttagaa gggttttcct
153361 ttttgtccta gtaaacatc agccctgta gctcttcatc tccccctggt gttcttctcc
153421 cgccatgtct taagattggt ggcaccgacc aatcttaaga tttaagttct gtgtgaaaaa
153481 cacctttgct tttcaatcag tttatcagcc tcctccgcag gggaagtgtg gacacacaaa
153541 agaacttatc ggggcttctc atcagtgata gggaaaagac tgggcatgtg cctaaacgag
153601 ctctgatgtt attttttaagc tccctttctt gccaatccct cacggatctt tctccgatag
153661 atgcaaagaa cttcagcaaa aaagacccgc aggaaggggc ttgaagagaa aagtacgttg
```

FIGURE 1 (continued)

```
153721 atctgccaaa atagtctgac ccccagtagt ggggcagtga cgagggagag cattcccttg
153781 tttgactgag actagaatcg gagagacata aaaggaaaat gaagcgagca acaattaaaa
153841 aaaattcccc gcacacaaca atacaatcta tttaaactgt ggctcatact tttcatacca
153901 atggtatgac ttttttttctg gagtcccctc ttctgattct tgaactccgg ggctggcagc
153961 ttgcaaaggg gaagcggact ccagcactgc acgggcaggt ttagcaaagg tctctaatgg
154021 gtattttctt tttcttagcc ctgcccccga attgtcagac ggcgggcgtc tgcctctgaa
154081 gttagcagtg atttcctttc gggcctggcc ttatctccgg ctgcacgttg cctgttggtg
154141 actaataaca caataacatt gtctggggct ggaataaagt cggagctgtt taccccccact
154201 ctaataggg ttcaatataa aaagccggca gagagctgtc caagtcagac gcgcctctgc
154261 atctgcgcca ggcgaacggg tcctgcgcct cctgcagtcc cagctctcca ccgccgcgtg
154321 cgcctgcaga cgctccgctc gctgccttct ctcctggcag gcgctgcctt ttctccccgt
154381 taaaagggca cttgggctga aggatcgctt tgagatctga ggaacccgca gcgctttgag
154441 ggacctgaag ctgtttttct tcgttttcct ttgggttcag tttgaacggg aggtttttga
154501 tccctttttt tcagaatgga ttatttgctc atgattttct ctctgctgtt tgtggcttgc
154561 caaggagctc cagaaacagg taggcacgct cgttgacttg taagtctcgg aattacaagt
154621 tagtgtgttc ttatccacct tcatgctttt cttgcttcta ttttccccg ttctttttat
154681 gactgcagct tagagagcaa gtgtctgaga attattgctg aaagctactt taagtcttct
154741 agtgtaaaat gtaaaattcc tctattgaat acaattaggt gcaattgact ataacatgac
154801 attaaaataa cttatcgttt tattattatt attccattat gtgtttcctt ggctttttaaa
154861 aaatgagaag agtatggaca tatacaattt agtcaaatgt atgtttgtaa tatatgtgtt
154921 tatacaggta cacaggccat ataggaactt aaatcttatt taaacactat tttaatagtg
154981 tgttaacgtg taaaatattt aagcattcca gcttgaagcc aaggaattgt atccagtcgt
155041 tcaagcaatg tatgttcagt aaaatcacct gcagagcaaa agtctgttga ctaactaccg
155101 cctccccccc ccccgccac cacccccgc aggcggtttc tgggtgaagc agatgttttc
155161 tttaaaattt gtcatcattg actttaggtt tcttttggca ggttttggc acccaaaaca
155221 gtgtgagctc tcttttcagc tttattcacc tgtgctggga ggggagctag gataattctt
155281 ggctgccgaa ggatttaggc agtgcgtgtg catctgcccg ggtccccccc gtttttaggg
155341 tcagtgcact ttttttgtct tttcgtgacc ctgactaaag agaaaggatg tcaagggaat
155401 gaaaatcctg gaatgtgtct gatcatttga aatgtacaaa attgggcaga taagctgcat
155461 ggctaaattg ttaggaggaa gaggcaaggc agtagtggag aaggggagg cagtggatcc
155521 cacacaagcc tgatgcccag ggattcggaa ttcaaaatcc ccccagccta ccttcagtcc
155581 cctgacctgc ttctcagccc caccttaggt cactggtttc tatggagtta ccctcctgaa
155641 ttgaatattg aatagttaat ttctctctcc aatcattttc cccacctaat tttgaaagat
155701 atacatcatc tggggtaccc tgtgccctac acagcatgtg aagtggatgg gtaccccta
155761 aagagagggt catcctgaat ggggaagtgg ccccaaagct aggaataact gtgatttctt
155821 gtctttagtc atgtgccaat gttaagtaag cttcagtgga tagtgctgtc ctaccaagtt
155881 ccttgtagaa gccagccgga ttttcaacag gcagcattcc acagcatttc cctgagcctg
155941 cttcaagagg ggtgggggaa gtcccttttc aggtgtttat ctcctctgca tttgtgtaat
156001 ctccctgaag gtggataagc caagggcatg aggggaggc aaaaggtgaa ctcatgttaa
156061 ggaggaaaa aaataaagag ccctttttc tgtgtttctt gctgatggca ggctgtgtgc
156121 ttcatctgct tttatctgct ctgctagctc tgactctact gtgatccagc atgtctctcg
156181 gcgtttgagg agacatcccc cactgacctg ctctttctct ccccagcagt cttaggcgct
156241 gagctcagcg cggtgggtga aacggcggg gagaaaccca ctcccagtcc accctggcgg
156301 ctccgccggt ccaagcgctg ctcctgctcg tcctgatgg ataaagagtg tgtctacttc
156361 tgccacctgg acatcatttg ggtcaacact cccgagtaag tctctagagg gcattgtaac
156421 cctagtcatt cattagcgct ggctccactg gagcccagtt ttagagtttc ttttctaggg
156481 actctgaagg tagtccttct aacaccatcc aagtgcctca gtggggacag tttccctcta
156541 ttcctgaaaa taacgacagc ttcgttctta gcaaccaagg ggagggtctt ctgaggcccc
156601 gtagctcagg ctactcatga tgggacaagc aggaggccac tgcacgtttc aaatgaggaa
156661 ctttcagtga gagggcctca ggggacact ctcacagtgg catctgatgg ggtttcggga
156721 ataattgccg aggtcagatg tgggttagtg caacctgtgc ttctcatggg agggtggaga
156781 ctgagaggca gaagtgatga tatagagggt tagaatcact taattttact tacagaaaaa
156841 cctaggctca aagtgttgaa gccatttgtg caggagtgag tttgtagcag agctagaact
156901 ggagcccgga tttcctttgc tgctatattt tccctttaga aatgcccatt tcagaactga
156961 aatagaaata ctgtccatag gcttctcttt cacctacaga gaagaaaagc agatttcctc
157021 cttctgccct ggacactagt tcatcatctg tcggaagcag tcataaacaa gcacacattt
157081 actatgcata caatgtaccg ttatgacaaa ggaggaccaa aatccaaaca atatcaaacc
```

FIGURE 1 (continued)

```
157141 acaccaaaaa ccacaaggag cctaataatt actaaggtga tacttccaaa gggaggactt
157201 tatttcttag atgagaatga aaatggacac attggaaatt attggagagc cctctggcta
157261 tgagtccttc cacaaccata tggtaccacc gactggcagg agaaatgtgt gaacatgtgc
157321 ctcctcctcc cccaaccact ggggtcggtg gggtgacggt ggcactttta gcagtatcct
157381 ccgtggtttg agttgaaaat aagtttttaaa aatcctgtga gtcatggttt tgcattgaaa
157441 cctcttccca ctgtgtaccc acaaatagtt aactaaatag accattagaa aaggaagaaa
157501 atataaagca gatgccaagc agagatgtcc taatttttga caaaaaagca atgttgcttg
157561 tgtcaagaag aaactgaact ttgtgaagag ttgaaatgga attccactga attagaaaaa
157621 cttgttttct cctgcctgga tacatacagt cagggccatt gatgcacagg tgttcctggc
157681 tgttgttaca cttacccctc tgaaatgatg ctcccaagtg ctatgtgatg agctccttgt
157741 gtgcccagtg gaataggtgt gtccatgtgt cattttaaag actattaatt acactaatat
157801 agtttctttc tctctttgga taataggcac gttgttccgt atggacttgg aagccctagg
157861 tccaagagag ccttggagaa tttacttccc acaaaggcaa cagaccgtga aaatagatgc
157921 caatgtgcta gccaaaaaga caagaagtgc tggaattttt gccaagcagg aaaagaactc
157981 aggtgagcag aaacaccttt gctttcaat cagtttaaca gcctcctgaa ctccttccta
158041 tcatggtact gccttcctgt tttagagaga ctaacagaga cattgaaagt cagggtaaag
158101 ctgaatataa cattgctgaa atgttttttcc ttgtgtattt taacagggct gaagacatta
158161 tggagaaaga ctggaataat cataagaaag gaaaagactg ttccaagctt gggaaaaagt
158221 gtatttatca gcagttagtg agaggaagaa aaatcagaag aagttcagag gaacacctaa
158281 gacaaaccag gtaagaggga aggaagaaaa attaggtaag aggttcacaa gaacaactag
158341 ccccagtcag tgatgccagc agcctgttcc tccagcccct cttacccggg caggtgaaag
158401 acttagaaaa cagtagcaga ggagatctat gcatcctata gattaaaagg agcaaaagaa
158461 tccctcttaa atatttccat gaagctctgg aatgcaaacc gatgtcctct gtactttag
158521 cacataccat ttcatctaca ggtagatttc ccaaccaaaa tatatccaga gatgcctttg
158581 tcattgggtt atatacagcc tttgcctctc tgagtcaatg tatttaccac tttccctgag
158641 aaatcgaaaa tcattttggg gagcggacat ttagaaaaag aatcaaagtg tcatggataa
158701 tcaaattctt caataagttg cagttattca gatggccaaa ggaaaaataa agtcattaga
158761 tagggttggt agaatttaga acatgctgtt tttcaggttt atggtctttt tttttttttt
158821 tttttaaat agggaaatgt gtttggtgca gagccaatgt cattccaaaa agctctctct
158881 tttcctggtc agtcatgtgc tgggacagag aagggatctg gattaggcaa catcatagag
158941 ttgctctgag ctgctctttg gtgataaccc ttccaaatcc taaacttttt ggaattcaca
159001 agctcaaagg aggaaaccta ctctctgatc taccacatgt tctgcatttt tctatcatgg
159061 tctatggaaa cttctcttag aaatccagtg gcaagaagtt ctatgattaa agtgttctga
159121 gctcaggcca ggcagtcatg aactacttct gagttatttta ctactgattt gtggggcagc
159181 ctcagctatc ggtttcttca cacctgctta tgagagtatc catatttatg gtcgcaggcc
159241 agtaatgctc cccacgagat cagtttctga actaacctgg aatttttat gggtttttat
159301 tatgccaact attaaatcaa cattacagtt cttccctctg tatttctcct gtaaaacatt
159361 aggcctgcaa aaaaaaaaaa tcttttaaa aataattgcc ataaagtatt tgctctgggc
159421 ctactgtatg cttcttttct ttttctctct tttcaactaa gtcaccgtca atttattaag
159481 atggccataa ctattcaaaa cctatgctga gttcctcaag gcagggtcac atagtgatga
159541 aggttgggat ggggctacgg aagaaaccag aacaactcta gtttatttaa aacctgtatt
159601 tactgcccac ttcccttag acttgaccat atgacccctc gctcccattc taagcatagg
159661 ggcaggcttt atttttacaa tggtaataga tatcacttga ggttttatca aagagttgcg
159721 gcgggtggtg aaagttcaca accagattca ggttttgttt gtgccagatt ctaattttac
159781 atgtttcttt tgccaagggg tgatttttt aaaataacat ttgtttttctc ttatcttgct
159841 ttattaggtc ggagaccatg agaaacagcg tcaaatcatc ttttcatgat cccaagctga
159901 aaggcaagcc ctccagagag cgttatgtga cccacaaccg agcacattgg tgacagacct
159961 tcggggcctg tctgaagcca tagcctccac ggagagccct gtggccgact ctgcactctc
160021 caccctggct gggatcagag caggagcatc ctctgctggt tcctgactgg caaaggacca
160081 gcgtcctcgt tcaaacatt ccaagaaagg ttaaggagtt cccccaacca tcttcactgg
160141 cttccatcag tggtaactgc tttggtctct tctttcatct ggggatgaca atggacctct
160201 cagcagaaac acacagtcac attcgaattc gggtggcatc ctccggagag agagagagga
160261 aggagattcc acacaggggt ggagtttctg acgaaggtcc taagggagtg tttgtgtctg
160321 actcaggcgc ctggcacatt tcagggagaa actccaaagt ccacacaaag attttctaag
160381 gaatgcacaa attgaaaaca cactcaaaag acaaacatgc aagtaaagaa aaaaaaaga
160441 aagacttttg tttaaatttg taaaatgcaa aactgaatga aactgttact accataaatc
160501 aggatatgtt tcatgaatat gagtctacct cacctatatt gcactctggc agaagtattt
```

FIGURE 1 (continued)

```
160561 cccacattta attattgcct ccccaaactc ttcccacccc tgctgcccct tcctccatcc
160621 cccatactaa atcctagcct cgtagaagtc tggtctaatg tgtcagcagt agatataata
160681 ttttcatggt aatctactag ctctgatcca taagaaaaaa aagatcatta aatcaggaga
160741 ttccctgtcc ttgatttttg gagacacaat ggtatagggt tgtttatgaa atatattgaa
160801 aagtaagtgt ttgttacgct ttaaagcagt aaaattattt tcctttatat aaccggctaa
160861 tgaaagaggt tggattgaat tttgatgtac ttattttttt atagatattt atattcaaac
160921 aatttattcc ttatatttac catgttaaat atctgtttgg gcaggccata ttggtctatg
160981 tattttttaaa atatgtattt ctaaatgaaa ttgagaacat gctttgtttt gcctgtcaag
161041 gtaatgactt tagaaaataa atattttttt ccttactgta ctgatttgga atcattactg
161101 aaatttgtaa ggagtgggcc aacgtgatta agtaccataa aggcaaataa atggttaaag
161161 acggtttcat agaaaagtga caattagaag gatattacgg tctaagctaa ttatataaag
161221 aattttatct gtatcttaaa tgttgatttt atactgcatt gaggtaaaaa cacaaaacaa
161281 aaaagcagct ttaacacctc tgtcttctct tgggtagcag cctcctgctt ctccttcacc
161341 tgaaaaattc tccagggact tcatccatta acttggctca ggctattagg caggattcaa
161401 cagtttaagc tgatggtgtg gtgagagatg ctttatccat attaatggac tgaaggaagt
161461 aatggcaaga caacccccca aaacatacct aattatacaa agttatatac caaagttgct
161521 tttagaaaat ggcctgctca gagcaagtag aggtttccaa tggctttta ttttctcaca
161581 ttaaggatgt tgtttcttaa ggaacattga gtaccattgc ttcttcgtga tagcctagga
161641 ctggccgtgt gcccatggag gtagagacac caggtactga ttctaggtcc tctgccacaa
161701 agcaccactt cctctccact ttgccttggc tggccttgtc agctcactgg agagcacagt
161761 attgcaattg cagtattgca aatggtcact actaactgaa ttctctaaga gcttgattag
161821 ccctcgagaa tcttccttgc ccttctctaa tagtgtctga aggaattcct ggcatttaac
161881 aaatattagc atgtagtgat cactgtcgtc ctaacagtga cacatcagaa ggatttcaaa
161941 taacagtctt caggcatgcg taatcaatgt cctgtgcaga gtctccgtcc tcattgatcc
162001 tcatttttct ctttaaggca cagtccaatg tctttgggga attgtttata aagcttactt
162061 tatccataaa ctgtttctca gtgcgtgact ctgaagaaaa ttttgaagtt ttgcccatgt
162121 tgacaaggtg cttggtctga acttggccag tatttaatct tgagcaaacg attcaatttc
162181 cttctatcgt gagttttctc atctatgaaa caagggagtt gaggggagtt tctttcatac
162241 ctctgagaaa gagtttgaga ttacataaag aagttgaagt ggcatgaaaa aaaataaaga
162301 tctgagctta gaagacatgg atctaataca tttaagagga agtcagaatc agagaagcca
162361 ctgaacaaaa cagtccaaag gacagcatag taagtcagat tgatgagttt tggttgggtt
162421 tttcatcagt caaacccttg agcccccctt tcccatgctt cctgcttcag tatccagtag
162481 gaaaaatgaa agggatgatg tagacactct agggcatgag gatttgcagt aaataagttg
162541 ggagactcac agaaaattaa tattttcaa acatgaagac gaaacattca attatattac
162601 agtccacatc agcttgaagg gtaaactgat gggatggtct gtcacatttc ttgctctgtt
162661 tccagtaaaa gcatggtttc tggaaaccca cttaggacag ctttctctct ttacactgat
162721 agcccaggca agctttgatc tcagaactcc agaaaccaga gaactctagg tggaatgtgg
162781 taacttttgc cagggcagag ggaacaccta ctaataggta cttcatttgc accaccagag
162841 attggcatct tttttgatgg atccactggc tttgatactg cctgtactcc cccaaaacac
162901 agcttgggta ttggactaat ctagagctcc ctcaggagaa ctcttgctga cattaagaaa
162961 gagcaacatt ttgtctttcc aggtgaaaat ccaaggccca aaaagggagg tgactcacct
163021 aagatcacag aaggagctgt agcatctctg gagcctgaac acttaagtta agcacgacta
163081 tttcagccag agggcccctg gaggtctgca gaaacagatg cccaggcaaa ccttgctaga
163141 aggctctggg tactaaagcc aaaatcagtc tttctgaaag ctttgcctcc cagccttgta
163201 gacagtgcta gcagacccat cccctcaaga ggaaagagaa gaaatgcagg ggaagaaaaa
163261 aggactataa ggaggctatc tcatggcatc gttaagtaaa tgtctatagg ataaaataga
163321 atataaccaa gaatttttaa ttattatttt tagactttac tcaccaaaga atctatctga
163381 gtgaaggggg aaatctctcg gtcagttctc tttttttttt ttttttttt ttttttgag
163441 atggagtttt gctcttgttg cctaggcagg agtgcaatgg cgctatctca gctcaccaca
163501 acctctgcct cctgggttca agcgattctc ctgcctcagc ctcctcagta gctgagatta
163561 caggcatgtg ccaccatgcc cggctaattt tgtattttta gtagagacgg ggcttctccg
163621 tgttggtcag gctggtctcg aactcctgac ctcaggtgat ccgcccacct tggcctccca
163681 aagtcctgtg attacaggcg tgagccactg tgcctggccc ggtcagttct cttttactct
163741 acaatgcaag gcagtggtct gctttttttt ttccccctct ctgtttctaa ggtcttgaaa
163801 atgcctgttt tcacatttaa gttctcaatg tgtaaaacac tgctttcaag cttatgttct
163861 taatagagtc ccttctgcat tggctttatc tcacctttat actcacagtt cctggggact
163921 ttgggtctgg agctcagaat ttatctactg caagtgaatg ttacacattt cacagtaacc
```

FIGURE 1 (continued)

```
163981 tctcatcttt gtagataatt tggtttcctg tagctttca catcctttct ctcattcgac
164041 ccctaccctc acacaacaat cctttcggga agctggaacc atatcatgta tccatcagcc
164101 aaccaaggaa agagacatat cgagagggtg agtgactcat ccagagtcca acatcaggca
164161 aatagcaaga ccagaacccg ggaccctga cccttcttc ttaaactcct ccagagccaa
164221 ggggatacac tggacctgca acttggacta acgtagatta tttccagctt gtgagtgaac
164281 tgtgagtgga atgaacttgt tcttattctc ttaggaagat caaagctccg tatgtaccct
164341 gagccctagt tttgaacgtc tctgtcgtat gattatttgt ttactgcatc attcttgtta
164401 tgacaatgca tggttggcag aaaacttgct ggcatttaca aagcttgcct caaatctggt
164461 gccatgaagc catgacaact tcattgacaa ctactggcca cagagccaat acatcggagg
164521 aaatagagtg atgaatgtga tggcagcggc catcaaattt cctcaaatct tgggcagtaa
164581 tcagagagag agctagggct ggtgccacta ggtagtaaaa agagaagggc ttcggccttg
164641 gagacaatga atgatggaaa tgttgggtcc cagggatgac aggctgcccg tagctcagaa
164701 aggcagcaca tcgggagtcc ggcatgcagt tttgcccgtt tagagttttc tgggtttctg
164761 catcctattg ttatttttca cattccgagt cattccagtc cccttctgtg taagttgctg
164821 tggaagtatc caggctaat aatcacaata ttaagcggcc attgacatgg catgggcact
164881 gaccaattag aaaaagctgg gacagagctg ttgggcaggc tcctgataga ctctggctgg
164941 gctaggtctt caacctcctg atgttggcct gtaggggacc ttgtgatctg ggacaggggt
165001 gggcagccag ggtggaattt ccaagcttct tgttgctagg gctatttact aaccaggatg
165061 aaatcatttc actgttttac agactagaat agtctcactg gtatgtgctc ctgtgtacgt
165121 cagatttaaa agtatcgaaa ccattctctg cttgataaat tattctcttt acagcttcac
165181 tgagtgagat gacattatct tcatgcctgc ggaggtttgg caccaaatct ttctgctcat
165241 gcacctttgg tgtcctgctg cacagtcatc tctggcaatg cccctctctc tgcatgttcc
165301 cctccctcgt gctctggtgc cctatgggag aagtaaaaag accttaaggg tctccttgtc
165361 tccttggaga ttttacttta aatttttttt ttattttatg tgttttctat ttcaatagct
165421 ttaagtggta caagtggttt ttagttacat ggatgaattg tgtagtggtg aagtctagga
165481 ttttagtgca tcccttactc aagtagcgtg cactgtaccc agtaggtagt ttttcagccc
165541 tcaacccctc ctatcctccc caacttctgg gtctccaatg tccattatac cattctgtat
165601 gcctttgtgt acccatagct tagctcctac ttataagcgg gaacatgttg catttgattt
165661 tcaattgctg agttacttca ctaagaataa tgacctccag ttccaaccaa gttgctgcaa
165721 aagacatcat ttagctcttt tttatggctg aagagtattc catggtatat atatattaca
165781 ttttcttggc cttctcatca gttgatgagc acttaggttg attccatacc tttgcaattg
165841 tgaattgtgc tgtgataaac atactcacgc aggtgtgttt ttgatgcatt gacttctttt
165901 cctttatgta aattccaagt agtgggattg gcggatagaa tggtagatct actttttagt
165961 tctttgagaa ctctccatac tgttttccac agagggtgta tgaatttaca tccttcttgg
166021 agattttttag cagggcaatt ttgtggttgc caaagtcaag atctgcctta gaccaggtct
166081 tcctagggcc ctagctctgc aataggaagg agcaagaggg acgagctgcc tgtaagatta
166141 aatcttgccc tcttagatta atttgggact aggaaagggt ggccccataa tttactattt
166201 aaactgggac atatttgaca gcacttagtg acattcttaa caattctcac ggagctacac
166261 attggactgt tgtggacaaa cttggacata tggtcatctt agatcaaaat aagccttgaa
166321 tcagttcaga atttcagaac cgcctttgct tcttggatgt gcttggcact gtgtaagcac
166381 acgcaatgtc tgtatgcctt tacctgcaga ccaggctgca gcagagcacc tcccccttt
166441 ctggtgccta cagcctcaag ttcagagctt agggcataat atatcattca ataaatgctt
166501 attcaatgga tgaataaata cagaggtgag ttccactgtt cagtaagagc ggggtgaaag
166561 tgatactctt ctagccagaa tgcgactaga caacagaaga tttataagac ccatttccag
166621 ggctctcttt gcagagctgc catagctgaa atcttctttt attgaggctc cacgctagtg
166681 gtaaattatt tgacacaatg gggtattctt tctacttctt tctactccaa cccatcctgc
166741 atttcaccat aatcataata acaataatct tctccaaatg ctttaattat aatttcaata
166801 aatacagagc tagaaggaaa ttaaaaataa ttttggctat taccctcatc tcaaaaacct
166861 tccactgcca ctctgcctat acaataaaaa tatgctatct actgagacag gcaccagact
166921 aggaagaaag gttgggaaat gttacaattt cagtattgag catattaagt tttaaatttt
166981 tcatcatagt gtgaaagttg tcagagtcaa atgaagtcac ctgtgttagg aaccctgaca
167041 aatggagcca ggaaaggcca taaaggagaa attctcacac acaaatgcct gataaccaaa
167101 gctatacag aatactttgc aaaaaccaca atcttgcaca aaggccatca caaccttaca
167161 caaaaaatac ttcagtgaag ttatctgccc agcaactgcc tgtctagcct cggactggtg
167221 ccaccttgt tattgataac tgtagccaag aataatgatc tcaaaacaat tacgttatcc
167281 tcctgatttt tcctttaaca atctttgttt tgctttacct cctcgaatac gcacatagtt
167341 tactatggca tgtgtatttt cattgcaatg tccatccctg aataaaaata attttctttt
```

FIGURE 1 (continued)

```
167401 catttattaa tgtatttgtt ttttgaaact gggtctccct ctgtcaccca ggctggagtg
167461 caatggcaca atcacagctc actgtagcct tgacctccca ggctcaagtg accctcccac
167521 ctcagcctcc taagtagctg ggaccacagg tgtacaccac catgctcagc taattaaaaa
167581 acattttttgt agagatatggg tcttcctatg ttgcccaggc tggtttttgaa ctcctgggct
167641 caagcaatct tctcgccttg gcctcccaaa gtgctgggat tactggagct gttgtgccca
167701 gctcaatttc ttttagggag tctctctgtc tgttatctag gttgacagtg gttatcttca
167761 aatatatcca acagttgaga gaatagtata actctaaagc caatatacct agcatatagt
167821 ttatatagtt gttgagatat gctgggtgtt gctttatctc tacctgcatc ctgccctcct
167881 tccttgaatt actttgaagc caatcccagc tatcattatc atcttaccta taaatatttc
167941 agtgtagttg taataaactt gatatgcttt gctcgatcag gtaaaatgtg aaatagtcaa
168001 ctagatatgt ggacctagag cttacagtgg atgaagaact cacaataaca aacgcctcac
168061 ggaactcaca ataacgaaag agacaatgca tgttgatagc ttgtgtttat gtggtgctta
168121 ctaatatccc agacagtctt ttgagaactt tgcatgcatc agctcatttt attcttacta
168181 aaacactatg aggtatttat cctatgttgc agatgaggaa acttgaagac agaaattcag
168241 tagtaactta tgcaaggtca ggcagctagt gaagaggtaa gaaccaggta acctcattca
168301 ctatgctttt ttgattcaga agaatccaaa gtgataaagg ttacattatg ggataatcaa
168361 gtcctatgat ggtatcaaag tgacagtgat caactctgcc tggggacagg gaagggaagt
168421 ggtggtttca gggaaggttt catgtaaaga aacagtgaaa aatcagcctt gaattcctaa
168481 gaaggatacc atttgagaaa tttaaagctg aatcaaaggc gtgaagaagt ctcaataaaa
168541 tgctttgtcg atagatgact tgataaaaag aacataacct aacatgctca tgtgactgac
168601 tcataagaaa agtaagcagg tatctagatc attaaaagat gatttatctt gcaataatcc
168661 aatgatattg gaaatcttaa agcaacacaa caacactagg acagaaatct ctaattttca
168721 agtggcattg attgaactga aattttgagg tatgactaaa aatagcaaga aagcaattct
168781 aacagatttt cactaaattt tcagaagtta actacattta acattataat acaatgaaat
168841 aattccactg aaaatcactg tacttactga atgtaagctt attttatagt tcaaatgccc
168901 tatcaacctc ctactcttta atgcatggtc acaaatgacc tctcaccatg tcaagaattc
168961 cctcttgatg tatggatagg aataacccac ctgtcaactt aggtgtcttc cttgtgtttg
169021 aacaatttgc taaggtacca ttaccaatcg accctgctct gacattggtc accggtgtgg
169081 ttctttccat ataacctcat cgttttgccc tgatcagcgg ccacaggcag gcagtaaccg
169141 ttggtttggt gaaagacaaa atgccctaga caattaagga gatgatctta ttcaggctac
169201 tacaataagg aaaatgttca ttaatgaaga ctgtctcaag gaaaggaagg aaacctgggg
169261 tttcatagag acagtaaaca agggagcaac tgaatctttt ggtagtcatg aggatggaga
169321 tggtcttttc ttaaccatga agaaagggtg gaaaggaaga ggctcgagca gggtgtttcc
169381 ttgcagttag ccatttctca ggacacaaag aatgaggaga tattttgagg gacacaggac
169441 tcagataaat ttcttcattg tcagtccctg gtttttttca agatgaatat cattcatcaa
169501 ggaaacactc aatgacaatc ataaatctcc tgagtggggt gaagtaaggt ctcagaaatc
169561 atttctcaaa gagtcttagt gttattcgga caaagacagt tgaagcatct gtagaaagat
169621 aatgtcaagg tcagttgtgt tgggattctg gggactaggc accgtaaaag aggattgctt
169681 aaaaagaaaa agagaaatat aagtataaaa ggtttactaa agagccagaa attgaataat
169741 gagggtaacc agttcagtgg attccaagag gtcagtggag gaaaatcttt cagttctgta
169801 acactgctct ttgagtctct tagagctact gaataggaca tcagtgcttt cagtggtgct
169861 gtccacaggg catgtctgac tctagcattc cacaggcttc ttagtggccc aggcagtgcc
169921 tttccaggga gaaactgggc ccatgaatgg tctgctacag tggtgagtcc tttgaagtat
169981 atatagcaaa ttttagctta taatgcttct tcagatccta gggaaaagga cccagataca
170041 agacaacctt gagtccttac agggatccgg gtagtcagat tttagttctc ggtgacactg
170101 agtcaggcag cagtgagaaa aattgaaaaa actgttggaa accagaaaga ttgaagatct
170161 gaaaaggatt gataatttgg gaagtttaca ggatccagtc caacttacag ataggtacaa
170221 aaactaacag ctaggagaa agtcaattac aattccacca gacaagacag tttgcctatt
170281 aatcattact cacattaaaa aaaaacccaa acagctcaaa aacaatgaac aaggttagaa
170341 tgagataacc tgggagactg tgctatctga tgtatagttt ttcattaaaa tgcaaaattt
170401 atttgtgtag tcactgactc ttgatcaaga ataatctcaa agaaagatta ttcttgccat
170461 tacaagccat ctcattagat ctagaatggt tattcagatt ggtacagcaa gaatggtaat
170521 ttaccatatt ggcctttttaa gtttgctttt tggaaatttt cataaggagg ctcagattgg
170581 actgttaaaa aaaatctctc tagacaggaa gccaagccaa taacttgcta ccagatttca
170641 cctgtcaagt acctataaat ctgggcaaat ttatttttttc ttcaagtccc ccaaatatcc
170701 taggattcct aggcatgcca ggaaaggacc ttctttacct ctttactcac ctaaaaggaa
170761 gaggatctgt aaatcaggta tcaggcctgt tttcccggga aggctttgta agcatcattt
```

FIGURE 1 (continued)

```
170821  ccgtaaagcc  aaccttagct  tcttaaaagc  atctggtcat  atctgattaa  atgagcatca
170881  ttctcaacta  tgacattcca  agcactgcct  tagttgtata  acctgtattt  tcaattttgt
170941  catggtaaca  agaaggacag  attcttattg  aacctatgca  aatgattatg  ttgccatgaa
171001  aataaaaata  ctcaataaga  gtttccaaat  tctggaggag  tcaggcagag  agaatcaaat
171061  accactatca  aatgtttcat  ttcgtaagtg  atatcttatt  ctctgagttt  ataaactgag
171121  tttcagttta  taaaagcaaa  atctaaattg  ctatgtatta  tgtattatag  accacttaag
171181  aggaaaaaga  aagggcttcc  ctatatatcc  agaaaacaga  atatcagaat  gatcatattc
171241  caaacaaaaa  gcacaaacag  tcctcgtcag  ctcattcagt  gctatgtagt  taatttgtat
171301  tccactcagt  cttgagtgaa  gagtctcatg  aacccctttg  tttcttggct  agagttctag
171361  gaatcctaac  tcagtccact  ggtatgttct  caatattgtt  taagtgacac  catcagaagc
171421  cagtacccaa  aagtatctgg  caaaagtgaa  ggacaatctg  gcatcatcct  tttctacagg
171481  gctttgagaa  gataccacgc  cgaggacaag  cactatggcc  tctagctgat  ttgcaaagac
171541  tgagatgcat  cagagtaaaa  caaagactat  ctgtagatga  caaaagacat  aaagtggcac
171601  tgtggttaac  ttcttactga  taattttcaa  aagtgaaaga  tctggtgaca  ggtcattaga
171661  acaataatgc  aactgacaag  gaaatctggc  tgttcgtgtg  gagtacaaaa  caagatcagg
171721  aagtcgatcc  aaaaggtttt  agacaagaag  ataatttccc  ctgtttttcaa  agagtggcta
171781  ttacatttga  tttataaaat  tgggttgtat  tagtccattc  tcaggtagtg  ctataaagaa
171841  ctacctgaga  ctgggtaatt  tataaagaag  tttaattgac  tctccacagg  tttaacagaa
171901  agcatggcaa  ggaggactca  ggaaacttac  aatcatggtg  gaaagcgaat  gggaagcagg
171961  tactttcttc  acaatggtgg  caggagagag  agagagccaa  ggggggaggtg  cttttaaaac
172021  atcagatctt  gtgagaactc  actcactatc  atgagaatag  caaggggggac  gtctgcctcc
172081  actgagccaa  actgtatcac  gggtaaacat  tattttaca  gagaaaaaaa  atcttgataa
172141  ataactgtaa  taatcctgac  ataatatacc  atgaatatat  caagcatata  gttagaatat
172201  accacgaata  tatcaacaat  atattctgaa  tgagtctgga  gtacatccta  aatatctata
172261  tgttaataaa  actccatagg  gaggtgatat  gtatccccat  ttgaaaatca  ctggcctaga
172321  agattctagg  ttcaaatcaa  agaagcaaag  ttgtgaccaa  gttaatattt  ttaaaaataa
172381  ctgaaattat  gactgatagc  actgtactat  tgtataacat  taggcacagc  agaactagga
172441  ccgtgacaaa  tagaaacata  tgaagagtga  tggtatggac  aattctttag  ggatttctac
172501  agcacacact  ttctgaaata  ttaagaacac  acattttagc  tagagaaagc  taagcaaatc
172561  tgatttgcta  actcatcagt  tgtaacatat  caaatacacc  taattatttc  cagcatctct
172621  ctttttcatc  tttgtagata  aaagtaaaaa  tcttgttact  tttccaggcc  ccctgccctt
172681  gaaaaattac  agaaatagtt  ttaggtgcaa  aagaaatcat  taagattgtg  tttggggaag
172741  acaaacacca  aaagttgtta  ggcgatttga  acacttggtc  aggtaagact  atgggttact
172801  gagaaacaat  acttggctac  gtatttgact  aaaacaacag  taaaaaattt  aaaaagtaaa
172861  tataagaggt  aacatgattt  taaagaagct  tagctctttc  ctaagaaact  ctgttttctt
172921  aaataatcaa  ggacattgtt  gtggttcgaa  tgtttgtgtc  cccccaaaaa  ttcatatgtt
172981  gaaagctaat  tgccaatgtg  atggtatttg  caaatggagc  ctttgggagg  tgattaggtc
173041  atgaaggcag  accctcatga  atgggattag  tgcccttaga  aaagaggccc  aagacagctt
173101  ccctgagcct  tctaccatgg  gaggacacag  cgaaaaggca  ccacctatga  gccaggaagc
173161  ggccctcacc  accagacatt  gaatctccta  gtgccttgat  cttggacttc  ccagcctcta
173221  gaactgtggg  aaataaattt  ctgttgttta  taagccacct  agtttatagt  attttgttat
173281  agtatcccaa  acagactaag  acatgataaa  gtcagcataa  accaggttat  tctagtaaga
173341  cacagacact  ttgttttcta  ggcagattgc  acagaagata  aagaataacc  atttacaatc
173401  ttttatcaaa  agcaaaccaa  taatccaaga  aaaaaattca  tctaacagaa  agaaaacaaa
173461  attctagttt  tctaaagctc  tttttttttt  ttttttttta  aagacagagc  ctcactctgt
173521  tgcccaggct  ggagtgcagt  gctgtgatct  cagctcactg  caacctccac  cttccagttt
173581  caagtgattc  tcatgcctca  gcctcccgag  tagctgggac  tataggcgca  caccactgcg
173641  cctggctaat  ttttgtagtt  ttagtagaga  cagggtttca  ccatgttggc  caggctggtc
173701  gtcaaacgcc  tgatgtcagg  tgatccacct  gccttagcct  ctcagagtgc  tgggattaca
173761  ggcatgagcc  cctgtgccca  gcctctaaag  ctgtttttga  aaatttata  tgtatacccca
173821  ttaaacttta  cctaactttg  gccatgacaa  agaaaattcc  ttttctgaga  agctcctata
173881  cttttctgtg  ttcatgtgta  tccctactag  tgtaacttct  caaaatgcca  gaaattcatt
173941  aatagatata  tacagatttt  taccacataa  aataagaggc  aaattatata  aacttaaaat
174001  gatgtttagc  aattaacgtt  cagtattctg  cttttctcag  aaatgatcta  ggcagctact
174061  ggatatccat  tcattaactc  aatttattat  tggcccaagg  ttttaagttt  cctaaagact
174121  ttgcaaatta  tcttcaagct  gacacattgt  ataacataat  tactgctgaa  ataaaatttg
174181  tcaaaataag  tcttcaaatt  acttaaacac  aaattcgcat  tttttcatca  ttttaaacat
```

FIGURE 1 (continued)

```
174241 ttagtagaag tgatgctagc ttcctcaatt agtaaatctg tataagttta aaaaatattt
174301 acaaatataa caaaatctgt gcttatgcaa tatttaacac tgataaatca gagaaaactt
174361 agctgtattt attaaatcaa aattattaag ctagactcat ttgccaaaaa agtacctaaa
174421 ttacataaaa ttagatttct aaattatttc tgagttaata tctataacaa tacctttttt
174481 aatccccaca ctgaaagtat tagaggttca attttcttaa tttctttctc ttcataaagg
174541 gatattctta ataaaggaat atttagtcaa tataaatgct tatttatctc taagcaaatc
174601 agactagaga ttctttaaga catttcctaa tctagcttat tgatattatc aggagatga
174661 aaaatattat acactcacac gatgagaagt aaaggacttt ctaaatacag acatactcac
174721 agagaaagct tataatttca tttctaaaat ttcagtcaga tgtcaaatat aaaccaacaa
174781 atacaaaacc cgccagtcca gatattaact tcctggttgg cataatattc ttaatagatt
174841 tgaactaaaa atagacagac agagaggaga ttctagctaa attctgtcac ctttcactca
174901 acagagacaa ttacctctat aaaccatcag ttgcttaaag agatcatcaa atgttcagac
174961 catgaaaata aaagttgtcg ctagaaattg agtaagtgct caggaaaagt aacaatcaaa
175021 tctactgtgc tactgatgaa caaaagtcac atgagttgga ctcacctttg ggtccccgaa
175081 tctgtagtcc ggaacacaga gggctccagc tgcctagata cccctgtgga ataacagagc
175141 tctgaagtga ggcccaagct attcaagtta ttgcacccaa cagagggagt ccttgtaagg
175201 agaatggggt aagaaaggga gcctggtcag cacaaatgta tcaggaaagt ggctcaagtg
175261 cagtaaaatg actaagagta tggtcattgt attcagatat acctggattc aaatcatggc
175321 tccactgctt ataagcccct tgggaagcta ttttaccttc ccaagtctcc atctattcat
175381 ctataatatg gagataataa tacctaccac acagtgtgat tgtagattac cattccatat
175441 gaaactctgg agaccggccc tttattcatc acacaaaccc ttcaccatat gaccctaact
175501 tacttttcct gtttttgttt gtttgtttgt ttgtttgttt gagacagggt ctctctctgt
175561 tgcccaggct ggactgcagt ggcatgaaca cagctcacta caggctcgac ctcttgggct
175621 caagcgatcc tcccacctca gcctcctgag tagctgggac tacaggtgca caccaccatg
175681 cccagctaat tttttttattt tttgtagaga tgcgtctcac tttgttaccc aggctggtct
175741 caaactcctg gcctcaaata atccttctgc ctcgatctcc caaagtgctg ggattacagg
175801 tgtgagccac catgcccagc cctcctgttt tatcttcacc ctacattggt actatcgtag
175861 gggaacattt ctcaattttt gtgtgcaaca gagttaacct agaaaaattg ataaaatgaa
175921 gattcccagg tcacaaaccc cagaaattaa gacctagtaa atgatagaac ctagaaatct
175981 ttgttttagc aagaacccag gtggttcaga cataggtgtt ttttagatta tgtttaattt
176041 taaaaatata ccacgtgagc agccgggcgc agtggcgcat gcctgtaatc ccagcatttt
176101 gggaggccga ggtgggcaga tcacgaggtc aggagataga gatcattctg ccaacatgg
176161 tgaaaccccg tctctactaa aaatacaaaa attagctggg cgtggtggcg cacacctgta
176221 gtctcagcta ctcaggaggc tgaggcagga aatcgcttg aacccgggag gtggaggttg
176281 cagagctgag atcacgctac tgttctccag cctggtgcca gaatgagact ccatctcaaa
176341 tgtatatata cacacgtata tatacatata agtgtatata tatgtatata tgtgtatata
176401 tacatatatt acatatataa cataacacat atattacctc tataacatac atattacata
176461 tatattacat agatgttaca tatattatat atacacgtat acatatatct atatatacac
176521 gtatatatag atatatataa aatgttagct attcctcacc ctggctgtga actttcgttt
176581 ctctccaccc aggcttttga aatgccactt tctcatagaa gaatggcttt tcttcaaggt
176641 tctgctggtg agctgttttt taaatgtgtt ctcttctgtg aggctttcct ggacttctca
176701 aggcaaaaag gctttgtggt ctctcctctg gtatttgtta acaagtctga ttccccactt
176761 gacagagagc tcttgtaggg gaggcacggc atcttttttt tatctctgtg ttctcagcat
176821 ccagagaagg cacgctttga atgtctgtta attgagatga caatcccaac cccatattgc
176881 aaggagaatg attggaatct ctccatact tggctttaaa gtcatctaca agcctgaact
176941 gagagtctta gagactttca ggccagaagg tactaagagg tttgtcaagt cacagactga
177001 agaaatatt tgcaatacat atatctgata aaagactggg catctctctg gaatatcagt
177061 ttctaagaaa tggtgctaac acatccttat aataaatcag aaaaacggtg cctggtaact
177121 caggtttcca catgcaactc ctttcattac tggaaataaa aattgtttta ctttgaccaa
177181 agtagatgat gtcttccagt ataaaaaaaa aaaaaacact cctccccagc atcaacctac
177241 ctctgttgtt tttgtacatg aatatgttat tagcagcaat gacagacggc taacatctga
177301 gtccagccac ttgacaatca ttcgaagtca gcaggaacag acgtgctgaa ataaaaaaag
177361 acgagatgaa gtgctctacc tagggaacac cgccttgcaa tatatacgtg tcactgacct
177421 ctacttagga atgtgagtgc aaattgtcct ctggctatgg gcaacaacat aagccacgaa
177481 atgaaagagc tccaaataaa ttaaaatgat aaatttagcg atttagtgtg aacataaaaa
177541 gctttacaac ttcacgaatt aaaaaaacag tttcaatgtt agaagtcaag agagcagctc
177601 cctttagggg gtggggtggt agtgggcaga ggagagcctg ggggacttct gtcttctgtt
```

FIGURE 1 (continued)

```
177661  tcttggtctg  ggtgctgaga  acataggcgt  gttcactttg  gaggaatgct  ccaagctgca
177721  catcaagata  tatgctcttt  cccgtatgtg  ttatgtttca  aaaaagctta  cccccttcctc
177781  ctctcaaaaa  gcattttttc  cctttcattt  ttttatttct  tcttcttctt  ctctctctct
177841  cttttttttt  aactagatac  acgctgaaca  aacaaaatat  gcaaagaata  atagtttgaa
177901  ggggtgccag  catgctagcg  tgcctctgga  agcgtacatg  ccttggtctg  gactgggcat
177961  cagatgtgca  ttttcacttg  atgtaattca  tttccttgtt  ccatgaccca  gctttcctct
178021  ttggggtaaa  ggcccgtcca  gcattttttct  tggacaaggt  ctccaccttt  gctgcatcca
178081  gggagactcc  ttcagtgcca  cggtcctgcc  tcaggttagt  ttccttgtac  gtgttgcctg
178141  gctttgtcag  gtcttaatgc  catcctgaag  ctggtaaaat  gagccaagtg  acttcatctc
178201  tcatggcaca  ccttgaggac  attacttggg  cacaagccaa  ttcactgctc  acagcccgag
178261  agacattttt  ttcccatgag  ctagctcctc  tcctcctctc  tcacaaataa  cttcctctat
178321  gggaaaggac  acatcagaga  acaaggagca  ttgtaacggg  tgagaaatat  gcttgacatg
178381  gggaaggaga  tgccgtcctc  actccctcct  tccccaccct  cccacactca  tctgtcaact
178441  ctaatttctc  actaatgctt  gggtttcact  ctaagctccc  tttgcttgct  cgtgcccacc
178501  aacagaaata  tccaggaaaa  gaaagagcat  caggaatgac  tggcctgtgt  gcaagcaatt
178561  ccttgttgtt  gctgactgcc  ttctgcagct  tggcgaattt  gactcttgga  atgcacggac
178621  agaagtagca  ttttttctctc  caccagaagt  ctgacactga  ccatgtcaat  gagcgtcaat
178681  tggcagtacg  tgtgtgttgg  ttgaccettt  acatcaagac  caagctaagc  atttgctttc
178741  ctttggtcaa  ttccactggt  ccttccttttt  ggtcaatccc  atcgctctct  gacccagggc
178801  cagaggaaca  tagcatttct  cctaacttgg  acaatgttgc  aacaccaaaa  aggcttgtac
178861  tgaagtacgg  aggaggtaga  tgtgaagagt  catcctttttg  tcagattgca  aaggtgttgc
178921  agcccattag  tttcaggatg  ttttttatttt  gttcccttcc  agtaaatgtt  ttcagagatt
178981  ttgcctcggg  ttttttaaaga  tgttttataa  gttatgggtc  tctttaaaat  ttttaatcat
179041  cttaatgagg  tataatttat  atacaataaa  atgcctagac  agtgatccca  tttgatggat
179101  tttacaatta  tatatacccca  tccaaaccaa  gatagaaaac  acctccttca  cccagaaaac
179161  ccctcatttc  cttttccagt  cagttccctc  acacacactc  actcctgccc  taccccccagc
179221  cccactagag  cctaggagaa  gtcactgttc  tgatttcttt  caccataagt  tagctttgct
179281  tctataaaat  gtagcacctc  agtatatatt  cttttaggtc  ttgctaattt  tgctcaacat
179341  aatgttttttg  agatttgttc  atgttattgc  ctttgtcagc  agtttgttct  actttattgc
179401  tgagtaaatat  tccattgtac  aaatatatga  caatacattt  atcaattctc  ctgtatgagt
179461  acaatggaat  tgtttctatt  tggagctgtt  actaagagtg  ctgtgagcac  tcttgtaaaa
179521  gtctttttta  tgttctttttt  ttccatttct  cttgcataaa  tatctgagag  tagaattgcg
179581  gggccataag  taggtttatg  gttaacttta  tatgaaagtt  ccaaaatttt  tccaaactgg
179641  ttataccatt  cttatattct  taccagcagt  gcctgggata  tcgaattgct  tcatgcttgg
179701  tattgtcaat  atttttatttt  tacttagtcc  aacatttggt  attatcacag  tttatttact
179761  tcagctatga  tgatttgtgt  gaaatgccat  ttcactgtgg  cattagttgg  catttccctg
179821  atgatctacg  gtgttgagct  tactggccat  tcgttcttcc  tatgtgatag  gcacgttcat
179881  gtattttgcc  tgtttttaca  aattgacttt  tttgtgtttt  tattgttggt  ttttaagagt
179941  tctctataca  tcctggatat  gagtccttta  ttagacatat  gtattgcata  ggtattttcc
180001  agtttgtagc  ttgagaattt  atttttttaat  gatggcttct  gatgaacaga  aattattaat
180061  atttatgaag  tctgacatca  ttttttttttaa  attactcctt  tttatgtcct  gcttaagaca
180121  tctttgtctt  cccaaatgtt  gtgctatatt  ctcaaggttc  ctcttagaga  ctttaggttt
180181  ttagtcttta  tgttttttgtc  tatgatccat  atcaaattaa  tttttgtgca  cggtataagg
180241  cggggggtgg  tcaagactca  ttttttttcccc  caatatccag  gtgttctagc  actatttgtc
180301  taaaagtctt  tcatttcccc  attggaatga  cttggtgctt  ttgttaagaa  gccattagta
180361  tatgtgtgtg  tgtggctatt  tctgggttct  ctattttgtt  ccattgatct  atttctggac
180421  tcctttcatt  tccatagatc  actatcacaa  tatctatagc  tgtagagtat  gttttcagat
180481  tgattagtgt  aagatctcta  actttgttct  ttttttatcaa  gatcgtttgg  ctgtttttgtg
180541  ccctctgggt  ttctgtatttt  atttttagaaa  caacttggca  cttccttttaa  aaaatgatgc
180601  ttgaattttg  atcgaattgg  gttgaattta  tcctcgattt  aggaaggatg  gatatcttaa
180661  caacattcag  tcttacaaaa  acagtatgcc  ttttttgccgg  gcacagtggc  tcacgccagt
180721  aatcccaaca  ctttgggagg  ttgaggtgga  cagaacacaa  caggccagga  gttcgagacc
180781  agcctggtca  acatggtgaa  accccatctc  tactaaaaat  acaaaaatta  gccagatgtg
180841  atggtgcatg  cctgtaatcc  cagctacttg  ggaggctgag  gcacaagaat  cacttgaacc
180901  aggggggtgg  aggttgcagt  gagctgagat  tgtgccactg  gactccagcc  tgggcgacag
180961  agcaagaccc  tgtctcaaaa  taaataaata  agtaaacaga  taaaactaga  ctaaataaaa
181021  gaaaccagtg  tggcttttta  ttaagttagg  ttttcagttt  cttttaacaa  tgttttgtag
```

FIGURE 1 (continued)

```
181081 ttttcaatgt agagatcttg catatttcat tatatttatt cctagccatt taattgtgtg
181141 gtcatatttt aaaatttta tttgccagtt tttattgtta gtgcagaata tatactgact
181201 tttaccctaa agctttgctg cactctttta ttactttaa aaatatttgt gtagattcca
181261 tggagtttgc tatgtcacat gttctttgaa taacaatgat tttttccttt agaatgtttg
181321 tgcttttat tgcattgact tactctataa aattaccata tcttctagaa tattgctgaa
181381 tagaagtgtt gagtgaatgt tcttgccttg ctcctaatcc tagtggaaaa ggatttaatg
181441 ttactagttt aaagaataat ctgtaatttg attgagaaaa tttcctctat ttctagtttg
181501 ctgatagttt ttatcgtgaa tcagtgttga atttcatcaa gttcattttc tgcatctatt
181561 gagatgattt ttttctcctt tattctctta atgtggcaat ttacactgat ttatttcac
181621 acattgaacc aatcttacat ttctgaatat atcccacttg gtcatgactt attttttcat
181681 tatagctttt tgtgtgttgc cagatttgat ttgccaatat ttccttaagg catatatagg
181741 tgtgtgtgtg tgtatatata tacacacaca tatatatata tatacatata tacatatata
181801 tacacatata tacatatata catatataca catatatata catacatacc tatatataca
181861 tatgtgtgta tatatataca tatgtgtgtg tgtatatata tatatatatt tataagttta
181921 aaagttattt cgaaaatata ggctgagtat cccttaccca aaatgtttgg gacccaaggt
181981 ggtttggaat ttggactttt tttggatttt gaatagttag ataaatataa taagatatct
182041 tggggatggg acccacgtct aaacacaaaa tgcatttata ttttatatat accttacata
182101 catagcctga aggtaatttt acataatatt ttaaataatt ttgtgcatga aacaaatttt
182161 gattgtgttt tgactatgac ctgtcacatg aggtcaggtg tggaattttc tacttgtggt
182221 gtcctgttgg cactcaaaat gtttcaggtt ttggatcatt ctggatccag aatggatcca
182281 ggtataggtt ggattccacc tataccaacg tttttgccat cttagggtct ggttttattg
182341 acttttttt cttttttgct tgtttgtctt cttgctttt tgtgtttgtt tttaaatttc
182401 agattgaacg ccagacatta ggtattttt taaaaaacag tagagactga gacaccactt
182461 atttaccctc agaaaagggc atgcctcatc ttctgtccag ttattcgtat aggagtttgg
182521 cagatgaagt ctgtcgttga ggtgggcctg aactttgttg tggctttagt tatggtaata
182581 caacccaaat ttgaaatgaa actacactct gatgcctttt atttagtata agcactgggt
182641 gccagagagc atccctcagg tctcccacta tgactacaga cttcaggaga ccctatgccc
182701 ctgcacctca ggagagatct ctcccagcat tcctgcccct tggccagtgg ccaactgcta
182761 tttcctggca cttggtgtaa agcagggggcg tgggaggggtt tctctgagtt cccctgatcc
182821 acgattagac taaggcagcc cttctgcacc tgcagctcct cagctcctct gcccctcccc
182881 cagatgtaga caagggcacc tcatgcttag cacacagttc tgaatgctgg acccatttcc
182941 ttggctttcc tgttccatcc tcagtcttag acaggcccag tgccactatg ctcagggagg
183001 tctctctcag acctcctgac ccttcctggt gtcaggctgc tctgcctaat aggcagtgta
183061 agttctggag catagcaaga ttacttttgg ttttcctgct ttgtcttcac tcttaggttg
183121 atcatgttag cctgcatttc cctggatttc taaccctttt ccatatgtgg actgtcactt
183181 tctgccactt agtgtaaggc ctggagggtg agaaagtttt ctctcttctt ctgccactcc
183241 tggtgctgcc catattctca ttcggtgtgg acctggcact tcttttgtga agcagtagtt
183301 aaggagactt tagaactcac catggccaag gaaaggccca agggtttgtc agtgagacag
183361 atcagattcc aattgatggg caaccaatca atgaaacaga cacaccctca cagttggaaa
183421 tggaggatga agatacaatt gatgtgctcc agcagcacgc aggaggtgtc tactgaaagg
183481 ggcacctgtc tctttcctcc agaatgctgt tcttacagac cagtattaaa ttctcagtca
183541 gaaaactgca atttggtttc accacatctt gactaataga ctaatacagt acagttttct
183601 ctatcctttc ctttcccttt tcctcattcc tttataaaat cacataaagt aactaatgta
183661 tttgcacaag aatatcacat ttttaaactt tcttattata ttcagtggcc agtggtatgt
183721 tttaattgac atcgagtgga gacaggatgg gggaaaacac tgattctgtg aaaatacccc
183781 gtttctccac taccggcatg ctcattcagc tcttatcttt atattccagt aagttatttt
183841 gctctcactg ttttaacaac aaccaccaca acagaaaaaa cataaaaatc tttgcatacc
183901 ttgttcaatt gaataatttt aatgatttcg tatctattat tgtaaaacca aggacaattt
183961 tataacttt tttgtacgta gctgttacat gtaaggcaat ctgtttttaa gtagggttaa
184021 attactctta aaaaaaaaa agaattctag acagttttct cttcaagtca agcatgttgt
184081 tgtttaagct tcttgtttaa aaataaatta aagttttctc gattcctctg ctctctttct
184141 agtgtaggca gctggcatac tgtgttacag tctgttcacc actggtttca aatctttttt
184201 ttttttttga gatgcagttt cactcttgtc acccaggctg gagtgcaatg gcgtgatctt
184261 ggctcactga aacctctgcc tcctgggttc aaatgattct cctgcctcag tctcccaagt
184321 agttggtatt acaggcaccc gccaccatgc cgggctaata tttgtatttt tagtagagac
184381 gtggtttcac catgttggcc aggctggtct tgaactcctg acctcaggtg atctgcccac
184441 agacaggatc aggactttc attcagctgg gcttgagatc taaatatcaa tgagatccca
```

FIGURE 1 (continued)

```
184501 gagatctctt tatggtttaa aactcggctt tctgaacctt ggtgtatctc tctctctgtg
184561 tttgaccatc tggcagctgg attttatat tagattttc tcttcagtca ctcctctagt
184621 tttctggctc ttgtgaggtc tttctccttc cttttgtcct gtccctagac attagcactt
184681 actgcttgcc cttggtgaaa gcctagtgtt ccttgaaaag actcctctct tggttcttct
184741 gcccttgttc cagccttcag caggccactg ctggtgagga cttggagtat ctcagggtac
184801 atttcctagt tctcctgccc tgctttcagt gaagttcctg agtgctttat tggggtttta
184861 tgagctcttc tgccctgtct ccagcctttg gctgcctctg ccttgcactt gttgaaggcg
184921 ccatgtatct catggcagat atctttcagg tcttctgctc tgctctcagc cttttgtgta
184981 ctatctctgt gtactcagta aaggcccata aaaaaacaag gagaggggt gcaaactcaa
185041 tttgtgacta gagccccttg agactccagt ccatcatttc aaccaaccaa cgggcatcaa
185101 aagttcatca aggacaggca tggtggctgg tgcttgtaat cccggcactt tgggaggctg
185161 aggtgggtgt atcagttgag ctcaggggtt tgagactagc ttgggcaaca cggcaaaacc
185221 ctgcctctac aaaacaaaca aataaacatt ggtctaatat ggtggcacag gccagtagtc
185281 ctagctactc aggaggttga ggtgggagga tcacttgagc ccaggaggtt gagccctgat
185341 catgccactg tattctagcc tgggtgacag agtgagaccc tgtctcaaaa aaaaaaaat
185401 gttcattaac agttcagctg aattctcact ccatccacag cagattcctc ctttctccac
185461 cttcattcga ggttcacagt agctacggtt ttctctctgc tgaaattcat ttcatttaga
185521 ttgtcttgca tcctcagttc tttggtaggt ttatttattt atttatttat ttattttga
185581 ggcagggtct tgctctgtca tccaggctgg agtacagtgg cacaatcaca gctgcctgca
185641 gcctcagcct cctgggctca agcaatcatc ccaccttagc ccctggaata gcttcacagc
185701 tgggaccaca gacatgtgac accacgccca gctatttttt tttttttttt gagagatggt
185761 ggtcttgcta tgttgctctg gctagtcttg aactcatggg ctcaagcaat cctcctacct
185821 tggtctccca aagtgctggg attatagaca tgagccacca tgccttggcc tctggtgagt
185881 ttctttaaac tatcattata tagcttgtct agatgtatct tgctgtaaag gtggaagtaa
185941 tggtttcttg ctacttttta tatcctaata agaagcaagt gtctaaaagt ggtcttaaaa
186001 attattaggt agctgaaatt acacactatt aattaagtac acacacacac acacacacac
186061 acacacacac tccatttcct aatttctctt tatttttttt tcctactcag tcatccacag
186121 cactttctat tgtccacctg tagttctcaa ttgctaatga ttttcttc caggggacag
186181 ttggcaacat ctggagacat tttttattgt tacagctggg gagatggtgc tattggagtc
186241 cagtggtgta gagatcaggg atgctactaa acatcgtatg gtaagtagga ccgctctcaa
186301 caacaaaaaa ttatctggtc caaaatatca atggttctga ggttaagaaa ctctgttcta
186361 agggaatatg aacaatcgcc tgtagcagat acagtcattg tttttccacc aataaattct
186421 ggtggctacc aagcaaatca aaaagcaata gaagagaaag gaataatgtg tgtattgtct
186481 ttctgatttc aggaaggcag tgtgtggatc
```

FIGURE 1 (continued)

```
  1 mdyllmifsl lfvacqgape tavlgaelsa vgenggekpt psppwrlrrs krcscsslmd
 61 kecvyfchld iiwvntpehv vpyglgsprs kralenllpt katdrenrcq casqkdkkcw
121 nfcqagkelr aedimekdwn nhkkgkdcsk lgkkciyqql vrgrkirrss eehlrqtrse
181 tmrnsvkssf hdpklkgkps reryvthnra hw
```

FIGURE 2